PHILIPPINE ISLANDS BRIGHT OF COMMENCE AND INDUSTRY

and industry

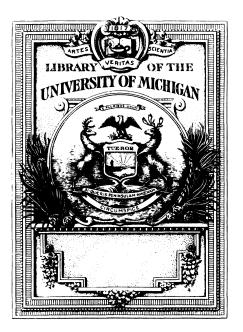
Statistical

BULLETIN

1-6

1918-23





REGEIVED IN EXCHANGE
FROM
Library of
Univ. of Minnesota









GOVERNMENT OF THE PHILIPPINE ISLANDS DEPARTMENT OF COMMERCÉ AND COMMUNICATIONS BUREAU OF COMMERCE AND INDUSTRY

STATISTICAL BULLETIN No. 1

DEVOTED TO THE COMMERCIAL AND INDUSTRIAL DEVELOPMENT OF THE PHILIPPINE ISLANDS, COMPILED FROM OFFICIAL RETURNS AND OTHER SOURCES, AND PUBLISHED

BY THE

BUREAU OF COMMERCE AND INDUSTRY



HON. DIONISIO JAKOSALEM

Secretary of Commerce and Communications

JAMES J. RAFFERTY
Director, Bureau of Commerce and Industry

Peturn to

EUREAU OF INTERNATIONAL RELATIONS

University of california

MANILA BUREAU OF PRINTING

160787

B.a.

CONTENTS.

	Preface
1.	Population by provinces, arranged in order of density
2.	Immigration and emigration of aliens.
	Value of most important imports.
	Monthly imports of rice
	Annual imports of rice
	Thirteen greatest importing countries.
	Annual exports of hemp.
	Annual exports of copra.
٠.	Copra and copra products in the Philippine Islands by H. W.
	Foster, Commercial Agent of the Bureau of Commerce and
	Industry
9.	Annual exports of sugar
	Annual exports of cigars.
	Thirteen countries receiving the greatest exports
	Value of the most important exports
	Foreign trade of the Philippine Islands
	Foreign trade and trade balance
	Comparison of monthly foreign trade.
	Trade with the United States
	Foreign trade of important countries.
	Commercial relation of important countries with the Philippine
	Islands
	Oriental trade of the Philippine Islands
	Internal revenue licenses issued (domestic trade)
21.	Tonnage of foreign and domestic shipping
22.	Freight rates of chief commodities from Manila to important
	Insular ports
23.	Passenger rates from Manila to important Insular ports
24.	Land transportation (Manila Railroad Company)
25.	Automobiles registered
	Trucks registered
	Rice mills and their capacities
28.	Cigar production and tax collected
29.	Cigarette production and tax collected
	Distilled spirits production and tax collected
	Factories, and laborers engaged, in the city of Manila
	Areas of the larger islands in the Philippine Archipelago
	Annual disposition of public lands
34.	Area of land cultivated and average yield per hectare of im-
	portant crops
	Quantity and value of principal crops produced
	Consumption of rice in the Philippine Islands
	Production and consumption of rice by provinces
	Production of rice by provinces
39.	Production of hemp by provinces
40.	Production of sugar by provinces

	•
41.	Production of copra by provinces
42.	Production of coconut oil by provinces
4 3.	Production of tobacco by provinces.
44.	Monthly average prices of important crops in the Manila market
45 .	Livestock in existence in the Philippine Islands
46.	Livestock in existence in the provinces
47.	Utilization of forest products
48.	Utilization of minor forests products
49.	Domestic corporations classified according to nature of business
50.	Domestic corporations showing year of incorporation
51.	Domestic corporations by provinces where headquarters are
	located
52.	Foreign corporations registered in the Philippine Islands
53.	Partnerships registered in the Philippine Islands
54.	Resources and liabilities of all commercial banks.
55.	Summary of the transactions of the Postal Savings Bank
56.	Philippine currency in circulation
57.	Revenue from taxation
58.	Functional activities of the Insular government.
59.	rinancial condition of the Insular government
60.	Bonded indebtedness of the Insular government
61.	Reserve fund for the redemption of the bonded indebtedness
	of the Insular government
62.	Real estate property and tax in the Philippine Islands
63.	Health statistics of the Philippine Islands
64.	Infant mortality in the Philippine Islands
65.	Health statistics of the city of Manila
66.	Public education
	The Philippine Public School System, by Dr. W. W. Marquardt
	Director of Education
67.	Expenditures for public education
68.	Roads in existence.
69.	Artesian wells drilled
70.	Postal and telegraph service
71.	Registered mail handled by all post offices
72.	Money orders
73.	Meteorological data for Manila Observatory
	The Climate of the Philippines by Rev. José Algué, S. J., Director

of the Weather Bureau....

C

106

PREFACE.

This is the first issue of a bulletin which the Bureau of Commerce and Industry will publish from time to time. Its aim is to furnish those who are interested in the economic development of the Islands with reliable data on the commercial and industrial development of this country.

Prepared at a time when the Bureau has not yet been completely organized, thus handicapped by the lack of necessary facilities, this first issue cannot claim perfection. With the coöperation, however, of other government bureaus and offices and the support of the general public whose criticisms and suggestions are always welcome, it is hoped that every subsequent issue will be a decided improvement over the previous one.

Acknowledgments are due the various bureaus and offices of the government for the valuable assistance rendered our statistical staff in connection with the preparation of this bulletin. Special mention is hereby made of Dr. W. W. Marquardt, Director of Education, and Father José Algué, S. J., Director of the Weather Bureau, for their contributions, the value of both of which has increased the usefulness of this bulletin to the people for whom it is intended.

FIDEL A. REYES,
Acting Director.



STATISTICAL BULLETIN DEVOTED TO THE COMMERCIAL AND INDUSTRIAL DEVELOPMENT OF THE PHLIPPINE ISLANDS.

Paturo to

Table No. 1.—Population of the Philippine Islands by provinces arranged in order of density.

				Popul	ation.		
Province.	Arons	190:	} b	191	5 c	1918	d
Trovince.	Areas	Number.	Per square mile.	Number.	Per square mile.	Number.	Per square mile.
	Sq. miles.						
City of Manila	20	219, 928	10,996	266, 246	13,312	289, 460	14,02
La Union	350	137, 839	217	148, 459	424	156, 390	44
Cebu	1,867	653, 727	337	727, 955	390	766, 830	41
Ilocos Sur	442	187, 411	398	170, 877	387	180,000	40
Cavite	464	134, 779	218	157, 477	339	165, 890	35
Pampanga	823	223, 754	258	270,070	328	284, 500	34
Pangasinan	1. 944	397, 902	334	535, 025	275	563, 600	- 29
Bulacan	1, 944	223, 742	191	251, 249			
Laguna	722	148, 606			250	264, 790	26
Batangas	1, 270		236	175, 401	243	184,770	25
Iloilo		257, 715	215	286, 643	226	301, 950	24
Pohol	2,040	410, 315	202	454, 911	223	479, 200	23
Bohol	1,536	269, 223	178	307, 914	200	324, 360	21
Rizal	913	150, 923	206	180,527	198	190, 170	20
Albay	1,543	240, 326	135	292, 157	189	307,760	20
Misamis		175, 683	47	177, 128	172	186, 590	18
Capiz	1,710	230,721	132	286, 927	168	302, 250	17
Antique	964	134, 166	118	159, 870	166	168, 410	17
Leyte	3,005	388, 922	129	478, 480	159	504, 030	- 16
Ilocos Norte	1, 293	178, 995	135	185, 446	143	195, 350	15
Tarlac	1, 178	135, 107	112	167, 738	142	176, 700	15
Oriental Negros	1, 902	201, 494	108	265, 202	139	279, 360	14
Occidental Negros	3, 125	308, 272	98	414, 113	133		14
Romblon	497	52,848		66, 113		436, 230	
Ratanas		92,040	92		133	69, 640	14
Batanes	74	40.505		8,685	117	9, 160	12
Bataan	480	46, 787	87	51, 267	107	54,000	11
Ambos Camarines	2,851	239, 405	73	293, 012	103	308, 660	10
Sorsogon	2,274	164, 160	71	201,050	88	211, 790	9
Nueva Ecija	2,069	134, 147	62	168,026	81	177,000	8
Zambales	1,421	104, 549	49	110,634	78	116, 540	8
Cagayan	3,007	156, 239	31	192, 422	64	202,700	6
Samar	5, 234	266, 237	50	325, 232	62	342,600	6
Tayabas.	4, 195	204, 739	48	254,052	61	267, 620	6
Mountain	6, 447	95, 495	36	387, 388	60	408,070	6
Abra	1, 475	51, 860	44	65, 170	44	68, 650	4
Surigao	2,889	115, 112	16	117, 640	41	123, 920	4
Isabela	4,052	76, 431	15	98, 748	24	104, 020	2
Mindanao and Sulu:	4,002	10,401	19	30, 140	24	104,020	4
Sulu	1 000	100 700		110 540	100	110 150	10
Sulu	1,082	120, 768	78	110,548	102	116, 450	10
Lanao	2,439			79, 597	33	83,850	3
Zamboanga	6, 383	67, 899	15	124, 869	20	131, 540	2
Bukidnon	3,871			58, 150	15	61, 260	1
Davao	7,486	65, 496	7	109, 921	15	115, 790	1
Agusan	4, 294			59,690	14	62,880	1
Cotabato	9,620	125, 875	11	97,661	10	102, 870	1
Mindoro	3, 983	39, 582	10	63, 777	16	67, 180	1
i alawan	5, 619	35, 696	6	65, 131	12	68, 610	ī
Nueva Vizcaya	3, 530	62, 531	32	34,665	10	36, 520	î
Philippine Islands	114, 420	7, 635, 426	67	9, 503, 271	83	c 10, 010, 810	8

a Furnished by the Bureau of Lands.
b Census of 1903.
c From Professor Beyer's "Population of the Philippine Islands in 1916."
d Estimated on the basis of Prof. Beyer's estimated population in 1918.

Alcupato
Note.—The comparison of population is not reliable as there have been many territorial changes since 1903.

The population in 1903 according to the official census is classified as followed	ws:
Brown	
Mixed	15,419
Yellow	42,097
White	14,271
Black	24,016
Total	7,635,426
The population in 1915, is classified by Professor Beyer as follows:	
Christian	8,413,347
Mohammedan	315,980
Pagan	618,637
Unclassified pagan	81,941
Foreign born	7 3, 36 6
Total	9,503,271
The population of the city of Manila is classified as follows:	
Americans (outside of the Army & Navy)	5,000
Filipinos	245,500
Spaniards	4,400
Other Europeans	1,500
Chinese	16,600
Japanese	2,340
Filipino transients	4,200
All others	920

Table No. 2.—Immigration and emigration of aliens.

[Source: Bureau of Customs.]

Year.	Immi- grant.	Non immi- grant.	Total admit- ted.	Emi- grant.	Non emi- grant.	Total depart- ed.	In- crease or de- crease.
1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918	1,706 2,059 2,308 2,946 2,536 4,408 4,032 4,067 4,641 6,939 4,187	6, 199 5, 411 7, 223 7, 248 6, 932 8, 238 7, 200 7, 857 6, 964 6, 226 2, 934	7, 905 7, 470 9, 531 10, 194 9, 468 12, 646 11, 232 11, 924 11, 605 13, 165 7, 121	(a) (a) 1,010 896 729 768 1,364 916 974 762 428	(a) (a) 8, 785 8, 696 8, 776 9, 138 9, 181 9, 574 9, 097 7, 523 4, 711	(a) (a) 9, 795 9, 592 9, 505 9, 906 10, 545 10, 490 10, 071 8, 285 5, 139	(a) (264) 602 (37) 2,740 687 1,434 1,534 4,880 1,982

NOTE.-Figures in parentheses are decreases.

^a Not available. ^b From January 1 to June 30 only.

TABLE No. 3.—Values of the most important imports of the Philippine Islands from 1908 to 1918.

Article.	1908	1909	1910	1911	1912	1913
Potton and manifestions of	750 677 774	000 000 114	100 000	5	700 360 60m	000
	F14, 443, 304	14, 389, 390	FZU, 970, 102	19, 463, 840	475, 799, 974	17,000,000
Iron alla steel, and manufactures of	4,018,612	4, 792, 152	11, 118, 916	99.	12, 436, 668	,
Rice	11, 105, 142	9, 588, 018	11, 982, 670	544,	26,017,012	329
Silk, and manufactures of	1,023,560	1,073,990	1, 468, 780	527	1,827,328	372
Wheat flour	1,886,044	2, 564, 898	3, 108, 478	3, 013, 716	4, 266, 654	3, 797, 908
Paper, and manufactures of	951, 122	1 052 904	1 594 030	1 499 054	1, 772, 112	1, 688, 874
Leather, and manufactures of	1, 115, 838	1, 184, 850	2, 241, 840	1, 836, 926	2, 548, 830	2, 1(6, 896
Dairy products	1, 142, 306	1, 349, 170	1,940,658	2, 025, 748	2, 509, 264	2, 442, 530
Automobiles, and parts of			b 633, 104	1,456,204	1,842,384	2, 526, 804
Coal	1. 195. 014	1, 252, 698	3, 358, 578	2, 438, 050	2, 133, 328	3, 168, 134
Fibers, vegetables and textile	861,904	745,068	999,830	890,068	1, 135, 530	1,003,128
Oils (not illuminating)	457, 474	490, 960	888, 656	1, 194, 524	1, 503, 772	1,689,230
Chemicals, drugs, dyes, and medicines	826, 756	1, 027, 352	1, 256, 580	1, 267, 896	1,668,826	1,438,160
Meat products	2, 768, 404	2, 920, 014	3, 770, 612	3, 668, 726	5,062,148	4, 106, 500
Illuminating oil	1, 438, 606	2,006,250	1,847,512	2, 280, 974	2, 786, 646	2, 536, (88
Instruments and apparatus	195, 920	277, 962	733, 062	1, 185, 440	1,645,270	1,989,678
Fish and fish products	638, 072	907, 286	1, 346, 232	1, 196, 956	1,344,552	1,691,560
Vegetables	1,079,580	1,237,466	1, 377, 162	1, 473, 956	1,605,818	1,559,910
Tobacco, and manufactures of	81,402	161,818	448, 518	354, 546	490, 482	617,792
Soap	129, 380	173, 568	338, 202	427, 106	658, 780	762, 952
Wood, and manufactures of	750, 104	718, 638	2, 029, 578	1, 224, 068	1, 661, 038	1, 541, 254
Books and printed matter	342, 264	376,618	921,418	786, 932	1, 229, 022	1,060,954
Glass and glassware	371, 748	384, 420	592, 908	998,366	715,958	636, 542
Cocos or cacao	459, 294	402, 356	446, 118	492,374	733, 608	504, 242
All other imports	11,090,330	13, 091, 022	24, 025, 178	20,833,360	23, 502, 448	20, 908, 200
Total	58, 372, 240	62, 168, 838	99, 438, 722	96,048,814	123, 335, 802	106, 625, 57

Table No. 3.—Value of the most important imports of the Philippine Islands from 1908 to 1918—Continued.

Article	1914	1915	1916	1917	1918a	Per cent to total imports.	nt to ports.
						1913	1917
Cotton, and manufactures of	912.	582.	P18, 649, 772	P37, 574, 005	8	22. 22	28. 55
Iron and steel, and manufactures of	13, 966, 888	8,860,142	7, 726, 477	11,855,125	10, 879, 040	16.17	9.01
Bice	552	148	13, 043, 642	10, 781, 463	94	5.93	8, 19
Silk, and manufactures of	698,	305	1, 769, 953	3,961,187	2,803,367	1.58	3.01
Wheat flour	3, 222, 316	3,892,607	3,002,883	3,831,050	3, 364, 069	3.56	2. 92
Paper, and manufactures of	1, 514, 380	1, 522, 421	1, 789, 886	3, 778, 373	1, 892, 013	1.53	2.88
Leather, and manufactures of	3, 115, 648	2, 549, 605	2, 119, 337	3, 247, 817	1, 771, 321	1.97	2.47
Dairy products	2, 236, 546	2, 199, 682	1,985,908	3, 129, 238	1, 204, 922	2.27	2.38
Automobiles, and parts of	2,026,902	1,949,633	2, 705, 145	3,080,801	2, 989, 123	2.37	2.34
Coal	3, 499, 490	2,865,041	2, 607, 988	3,076,470	2,005,335	2.97	2.34
Fibers, vegetables and textile	1, 494, 356	1, 197, 361	1, 242, 175	3, 071, 808	1, 987, 910	7 6.	2.83
Oils (not illuminating)	1, 587, 668	1,801,020	2, 631, 525	2, 914, 882	1, 169, 944	1.58	2. 25
Chemicals, drugs, dyes, and medicines	1, 447, 582	1, 730, 658	2, 776, 148	2, 862, 248	1, 570, 292	1.35	2.17
Meat products	3, 732, 548	3, 442, 474	2, 271, 487	2,850,873	1,744,105	3.86	2.17
Illuminating oil	2, 562, 040	2, 258, 030	2, 025, 691	2, 673, 335	895, 727	2.38	2. 03
Instruments and apparatus	1,657,422	1,500,493	1, 361, 024	1,893,907	744,415	1.86	1.44
Fish and fish products	1, 441, 470	832, 288	1, 120, 021	1,855,736	1,971,094	1.59	1,41
Vegetables	1,590,678	1, 428, 883	1, 477, 624	1,823,970	1, 139, 462	1.46	1.38
Tobacco, and manufactures of	614, 586	784, 583	849,005	1, 178, 446	567, 495	. 59	68.
Soap	1, 170, 724	962, 197	630, 319	1, 163, 630	386, 926		88.
Wood, and manufactures of	1,543,578	672, 425	616, 996	1,098,429	933, 103	1,44	8
Books and printed matter	939, 092	818, 892	939, 525	971, 559	520, 785	66.	47.
Glass and glassware	586, 638	541, 555	651,208	950, 781	721, 673	09.	. 72
Cocoa or cacao	908,809	469, 480	811.026	902,024	599, 855	. 47	69.
All other imports	18, 399, 288	17, 507, 144	16, 388, 963	21,063,874	13, 717, 696	19.61	16.01
Total	97, 177, 306	98, 624, 367	90, 992, 675	131, 594, 061	89, 956, 940	100.00	100,00

* January 1 to June 30 only.

D Not separately stated prior to July 1, 1910. Government and railway free entries excluded prior to the year 1910.

Table No. 4.—Honthly importation of rice from 1913 to 1918.

[Source: Bureau of Customs.]

		1913			1914			1915	Managara Visio
Month,	Quantity.	Value.	Duty.	Quantity.	Value.	Duty.	Quantity.	Value.	Duty.
January. March April April May June July Agenst Selember November December	Kilos. 6, 268, 815 15, 268, 815 15, 5737 1737 1730, 3347 1710 18, 977	2564, 070 948, 504 941, 470 317, 478 265, 064 444, 104 608, 178 338, 878 1, 180, 506 604, 082 442, 276 119, 600	P125, 374 269, 198 111, 586 74, 410 66, 810 101, 578 113, 024 113, 024 113, 024 121, 226	Kilos. 3, 82, 416 8, 282, 416 8, 252, 210 6, 538, 679 9, 329, 408, 003 10, 433, 111 10, 433, 117 10, 448, 104 10, 448, 104 10, 448, 104 10, 448, 104 10, 448, 104 10, 448, 104 11, 040, 243	7247, 118 238, 374 554, 116 440, 628 640, 078 650, 566 678, 426 859, 886 433, 880 791, 782	763, 650 62, 616 165, 046 136, 704 136, 446 188, 164 188, 164 188, 164 188, 164 188, 164 188, 164 188, 164 250, 862 250, 862 250, 862 250, 862 250, 863	Kilos. 22, 482, 889 13, 074, 748 11, 382, 857 11, 382, 857 11, 484, 758 22, 906, 281 22, 906, 681 16, 911, 849 26, 991 16, 911, 849 27, 906, 688 12, 356, 743	P1, 391, 994 822, 748 1, 822, 462 998, 203 1, 081, 103 1, 276, 044 1, 276, 044 1, 567, 814 1, 567, 814 1, 251, 758 1, 221, 738 1, 221, 738 1, 221, 738 1, 221, 738	P449, 658 246, 496 346, 654 325, 308 372, 086 458, 126 474, 538 533, 757 440, 056 335, 494 118, 130
Total	86, 989, 555	6, 329, 182	1, 739, 670	96, 921, 497	6, 552, 296	1, 937, 122	218, 411, 545	13, 448, 551	4, 362, 417
		1916			1917	The state of the s		1918.	Berger Control
Month.	Quantity.	Value.	Duty.	Quantity.	Value.	Duty.	Quantity.	Value.	Duty.
January March April May July A ugust September November December	Kilos. 7,515,484 7,515,484 12,815,697 14,229,395 19,684,212 19,684,212 19,684,212 19,684,212 11,125,476 22,125,476 22,24,413 16,134,131 16,134,134 16,134,134 16,134,134 16,134,134 16,134,134 16,134,134 16,13	780, 473 682, 822 682, 822 833, 683, 903 1, 533, 903 1, 533, 903 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	7150, 307 218, 386 286, 538 286, 538 217, 882 217, 882 217, 882 383, 276 441, 346 473, 967 473, 489 323, 489 270, 499	Kilos. 7,466,108 10,444,723 9,596,225 7,128,299 13,406,165 11,455,837 11,455,837 14,039,318 14,039,318 14,039,318 14,039,318 16,039,318 9,268,817 6,490,737	777768 145.687 165.117 767,117 715.576 496,018 1,232.100 1,067,672 1,067,672 1,067,149 1,067,672 1,067,149 1,067,149 1,067,148 1,011,385 1,011,385 1,011,385	208, 954 208, 954 191, 924 142, 599 268, 301 868, 301 864, 878 292, 611 292, 611 295, 230 297, 611 187, 914 187, 914	Kilos. 7, 749, 405 6, 801, 702 12, 755, 392 18, 707, 654 14, 487, 244 18, 862, 871 9, 642, 566 12, 687, 644	P738, 948 518, 381 976, 179 1, 441,050 1, 080, 465 1, 539, 136 2, 533, 131 2, 533, 131 1, 176, 341	P. 158 798 127 625 257 1992 258 1992 953 371 102 537 109 257 1000 257
Total	189, 835, 577	13, 043, 642	3, 796, 696	146, 985, 715	10, 781, 463	2, 976, 557	126, 645, 234	10, 586, 152	2, 563, 720

* To September 30 only.

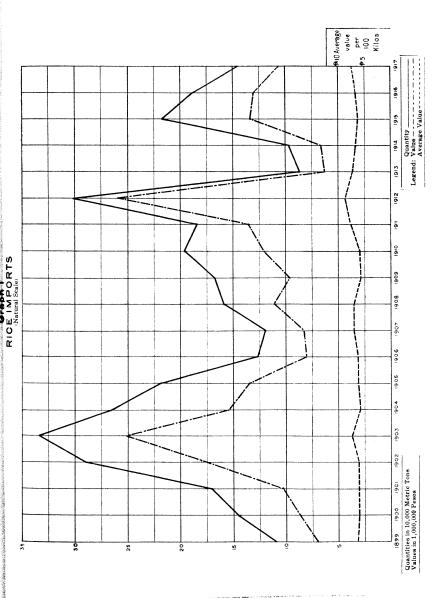
Table No. 5.—Rice imports from 1899 to 1918.

[Source: Bureau of Customs.]

The second secon	Rice i	mports.	AMERICAN SERVICE SERVI	Aver-	Aver- age
Year.	Metric tons.	Equivalent in cavans.	Value.	value per 100 kilos.	value per cavan.
1899	110, 142 145, 838 170, 648 290, 057 334, 339 265, 754 219, 274 127, 053 119, 024 158, 385 167, 125 197, 326 183, 675 301, 057	1, 915, 500 2, 536, 300 2, 967, 800 5, 944, 500 5, 814, 600 4, 621, 800 2, 070, 000 2, 754, 500 2, 906, 500 3, 131, 800 3, 134, 300 5, 235, 800 1, 512, 900	P7, 047, 382 8, 730, 112 10, 216, 682 17, 568, 776 15, 421, 508 13, 491, 950 7, 983, 826 8, 333, 488 11, 105, 142 9, 588, 018 11, 1982, 670 13, 544, 494 26, 017, 012 6, 329, 182	P6. 40 5. 99 5. 99 6. 06 7. 51 5. 80 6. 15 6. 28 7. 00 7. 01 5. 74 6. 07 7. 37 8. 64 7. 28	P3. 68 3. 44 3. 48 4. 32 3. 33 54 3. 61 4. 03 4. 04 3. 30 3. 41 4. 24 4. 97 4. 18
1919 1915 1916 1917 1918	99, 921 218, 442 189, 836	1, 737, 800 3, 799, 000 3, 301, 500 2, 556, 300 1, 350, 300	6, 552, 296 13, 448, 551 13, 043, 642 10, 781, 463 6, 294, 162	6. 76 6. 16 6. 87 7. 33 8. 11	3. 77 3. 54 3. 95 4. 22 4. 66

a From January 1 to June 30 only.

Note.—The value as shown above does not include cost of transportation to the Philippine Islands, rates of exchange, customs duties, cartage, storage, and other handling charges. 57.5 kilos is equivalent to 1 cavan.



Petamilio SUREAU OF INTERNATIONAL RELATIONS University of California

Table No. 6.—Thirteen greatest importing countries into the Philippines—Value of the three most important articles imported from each country in 1918 and 1917.

		1913				1917		
Country.	Rank.	Articles.	Value.	Percentage on total imports from each country.	Rank.	Articles.	Value.	Percentage on total imports from each country.
United States	H01604	Cotton, iron and steel, and oils	P29, 636, 302 6, 424, 038 2, 966, 566 2, 948, 484	55. 55 59. 75 43. 71 51. 04	1 5 15	Cotton, iron and steel, and oils	P40, 499, 904 4, 206, 606 9, 420, 878 194, 518	53.83 71.03 57.33 60.44
French East Indies	rc 0	Rice, chemicals, etc., and fish	5, 237, 414 4, 194, 432	96. 72 78. 31	e 9	Rice, animals, and coal and coke	10, 385, 776 3, 287, 216	99.09 91.38
China	7	Vegreables, meat and dairy products,	1,090,734	24.96	4	Meat and dairy products, breadstuff,	2, 643, 988	31.08
France Spain Switzerland	8 60	Diamond, papers, and perfumery Cotton, fish, and wines	957, 230 1, 228, 852 1, 227, 220	33.05 49.59 87.44	9 111	and covering and perfumery Fish, books and periodicals, and wines o'otton, meat and dairy products, and	1,065,123 472,091 688,949	67. 59 33. 55 91. 38
British East Indies Hawaii Hongkong	1322	Cotton, animals, and breadstuff Iron and steel, coffee, and sugar Iron and steel, cement, and sugar	206, 542 1, 167, 964 868, 608	15.52 98.17 82.03	7 13 14	cators and wateries. Cacao, cotton, and vegetables Iron and steel, coffee, and fertilizer Vessels, cement, and articles of Philippine growth, produce and manufacture.	849, 743 610, 386 312, 946	33. 50 99. 21 81. 17

Note.—The 8th and 12th places were occupied by Dutch East Indies and Siam, respectively, in 1917.

TABLE No. 7.—Hemp exports—Quantity and value exported, 1899-1918.

Year.	Quantity.	Value.	Average value per 100 kilos.
1899	Kilos. 70, 152, 768	₱15,987,148	P22, 79
1900		26, 580, 800	29. 36
1901	126, 245, 112	31, 953, 280	25.31
1902	113, 284, 000	38, 581, 220	34.06
1903		44,001,176	31, 44
1904		41,888,354	33.90
1905		43, 514, 688	33.36
1906		39, 225, 264	37.69
1907		39, 378, 986	33. 59
1908	131, 382, 008	33,003,912	25. 12
1909		33, 792, 000	20. 12
1910		32, 950, 622	20.19
1911		28, 970, 254	19.55
1912		44, 151, 342	25. 21
1913		42, 242, 168	35. 28
1914		39, 389, 630	32.99
1915		42,678,200	30.05
1916		53, 384, 593	38.87
1917		93, 615, 559	55. 25
1918a	71, 333, 675	53, 018, 524	74.32

^{*} From January 1 to June 30 only.



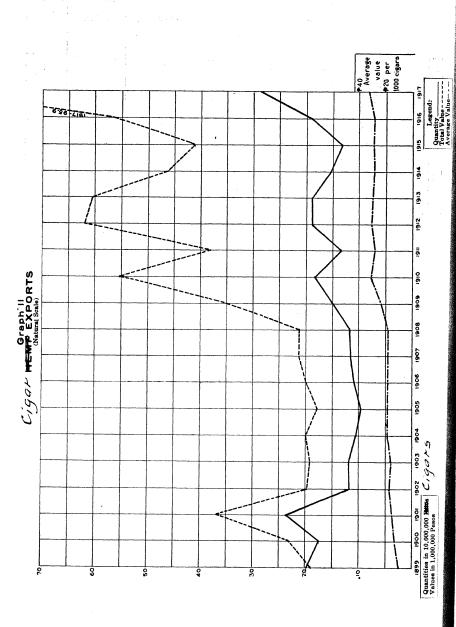
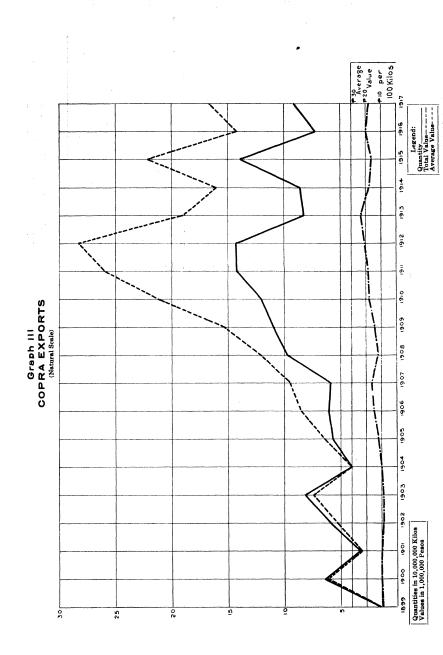


Table No. 8.—Copra exports—Quantity and value exported, 1899-1917.

Year. •	Quantity.	Value.	Average value per 100 kilos.
Andrew Control of the	Kilos.		
1899	. 15, 353, 175	P1, 453, 306	P9. 47
1900		6, 364, 962	9.81
1901		3, 223, 676	9. 91
1902		5, 403, 450	9. 12
1903	82, 154, 170	7, 639, 586	9.30
1904		3,962,244	10. 27
1905		6, 489, 406	11.64
1906	_ 60, 585, 955	8,747,404	14.44
1907		9, 568, 302	16. 32
1908		12, 117, 772	12.43
1909		15, 345, 730	14.07
1910		21, 278, 098	17.67
1911		26, 039, 124	18.32
1912		28, 366, 932	19.87
1913		19,091,448	23.22
1914		15, 960, 540	18.27
1915		22, 223, 109	15.98
1916	72, 277, 164	14, 231, 941	19.69
1917		16, 654, 301	18.07
1918a	42, 539, 577	8, 079, 246	18.09

a From January 1 to June 30 only.

160787---2



CONTRACTOR OF THE STANDARD OF

COPRA AND COPRA PRODUCTS IN THE PHILIPPINE ISLANDS.

By H. W. Foster, Commercial Agent, Bureau of Commerce and Industry,

Copra is the dried meat of the coconut and is prepared for the purpose of producing coconut oil. Copra is prepared on a commercial scale in 32 provinces out of 44 in the Philippine Islands. The Bureau of Agriculture reports 205,591 short tons produced during the year ending June 30, 1917.

The following figures show the exportation of copra and coconut oil from the Philippine Islands as recorded by the Bureau of Customs:

Year.	Con	pra.	Coconu	t oil.
	Kilos.	Value.	Kilos.	Value.
912 913 914		P28, 366, 932 19, 091, 448 15, 960, 540	5, 010, 429 11, 943, 329	₱80 2, 292, 678 5, 238, 366
915 916 917 918 •	139, 092, 902 72, 277, 164 92, 180, 326 52, 485, 727	22, 223, 109 14, 231, 941 16, 654, 301 9, 893, 969	13, 464, 169 16, 091, 169 45, 198, 415 79, 924, 479	5, 641, 003 7, 851, 469 22, 818, 294 43, 005, 869

a January to September, inclusive, only.

To prepare copra, the coconut is split, the meat partially dried while in the shell; the meat is then removed and the drying Drying is done either by the sun or artificially. ompleted. There are three classes of copra. Sundried, as its name indiates, is copra which has been thoroughly dried in the sun. nerchantable Manila is copra which was partially or imperfectly ried when received in Manila and which has been redried. rade copra is that which is smoked and scorched and is rancid. There are the following variations in quality within the classes nentioned depending upon the perfectness of the drying:

a. Sundried:

1. Thoroughly dried in the sun	₱12.75 to ₱13.00)
2. Thoroughly dried over a drier		
b. Fair merchantable Manila:		
3. Redried in the sun	12.00 to 12.25	,
4. Redried artificially	11.50 to 11.75	
c. Low grades:		

5.	Partially dried in the sun	11.25 to	11.50
6.	Imperfectly dried over a drier	10.75 to	11.00

Petura to SUREAU OF INTERNATIONAL RELATIONS University of California

PRICE OF ARTIFICIALLY DRIED COPRA.

[Per picul.]

1918.	Imperfectly dried.	Redried in Manila.	Thorougly dried.
January February March April May June July August September October (1-29)	10. 75 to 11. 00 11. 50 to 11. 75 11. 75 to 12. 00 10. 50 to 70. 75 10. 00 to 10. 25 11. 00 to 11. 25 12. 75 to 13. 00	P10.00 to P10.25 11.00 to 11.25 11.50 to 11.75 12.25 to 12.50 12.50 to 12.75 11.25 to 11.50 10.75 to 11.00 11.75 to 12.00 13.50 to 13.75 15.00 to 15.25	P10. 75 to P11. 00 11. 75 to 12. 00 12. 25 to 12. 50 13. 00 to 13. 25 13. 25 to 13. 50 12. 00 to 12. 25 11. 50 to 11. 75 12. 50 to 12. 75 14. 25 to 14. 50 15. 75 to 16. 00

PRICE OF SUNDRIED COPRA.

[Per picul.]

Many oil men have complained regarding the high price of It has even been stated by some that with copra at P15 their mills would operate at a loss. On the other hand, others have claimed that they could operate at a profit paying ₱16 per picul for copra. There has been a movement on the part of certain mills to combine to limit the price to be paid for copra. The claim is made that the producer is not benefiting from the high prices, but that the prices are being forced by speculators who have already purchased large stocks at low On November 5, 1918, however, there were but 87,390 piculs or 5,462 short tons of copra in Manila, exclusive of that in the hands of oil mills. If one mill operates at a loss paying ₱15 per picul for copra while another realizes a reasonable profit paying #16, it would appear that there is a wide difference in degree of efficiency attained by the respective managements of the two mills.

Coconut oil is produced commercially by passing copra which has been ground to a meal through expellers or through hydraulic presses or both.

Coconut oil was first exported on a commercial scale in 1913. Prior to the opening of the war, there was but one company in the Philippine Islands producing coconut oil on a commercial scale. During the war difficulty in marketing copra was encountered, both because of lack of European demand and because of lack of space on deep sea vessels. As a result the coconut

oil industry enjoyed and is enjoying a period of unwonted prosperity. There were on November 18, 1918, thirty-seven companies incorporated under the laws of the Philippine Islands or of the United States having for their purpose the manufacture of coconut oil. There are in addition five individuals or partnerships engaged in the same industry. The thirty-seven corporations were organized in the following years:

1909	. 1	
1911	. 1	
1913	. 1	(Reorganization of first company.)
1914	. 1	
1915	. 3	
1917	. 8	
1918	. 25	(reorganization of two old companies.)
	40	
	-3	(Deduct for reorganization.)
	27	
	. 01	

The individuals or partnerships began to produce oil during the following years:

1916		1
1917		1
1918		3
	-	
		5

Not all of these forty-two concerns are producing oil. On October 31, 1918, thirty-one of them, however, were registered with the office of the Governor-General as having produced oil or as expecting to produce in the near future. These thirty-one concerns commenced to produce oil as follows:

Year.	Number of companies commencing to produce	Total prod- g ucing.
1913	1	1
1916	3	4
1917	6	10
1918 prior to November 1	11	21
1918 in November 1	1	22
(Not yet producing)	9 .	
-	31	

Of the twenty-one which had actually produced oil prior to October 31, 1918, three were closed for repairs on said date. There were, therefore, eighteen mills in operation on October 31, 1918.

The following figures may be of interest:

Date. (1918.)	Number of oper- ating mills.	Oil on hand first of month.	Pro- duction.	Total on hand dur- ing the month.	Shipped.	On hand last day of month.
January 1 to August 31 September October Total	16 17 18	12, 401 9, 599	81, 551 14, 989 15, 808 112, 348	27, 390 25, 407	17, 791 10, 446 28, 237	9, 599 14, 961

Average daily production October, 1918, per operating day—523 tons. Quantity of oil is stated in short tons of 2,000 pounds each.

It is estimated that these thirty-one companies referred to are equipped to produce a maximum of 1,300 tons of 2,000 pounds each of coconut oil per day of 24 hours. The eighteen of the companies actually producing oil, are equipped to produce a maximum of 964 tons of coconut oil per 24-hour day. These mills produced 15,808 tons of oil during October, 1918. The oil was produced by mills at the rate of 523 tons per operating day of 24 hours.

To supply the thirty-one mills with enough copra to run at the estimated full capacity, 847,300 tons of copra per year are needed. To supply the eighteen now operating with enough copra to run at full capacity, 628,250 tons of copra per year are needed. To enable these mills which produced 15,808 tons of oil in October at the rate of 523 tons per operating day to continue to produce oil at that rate per day for a year, 340,880 tons of copra are needed. The calculation is based on an expected average of 56 per cent extraction—a percentage considered favorable under existing conditions.

The annual production of copra as estimated by the Bureau of Agriculture is 248,641 tons. Many oil men estimate the production for 1918 to be 300,000 tons. The following method of estimating the amount of copra available in 1918 may be followed: The total amount of oil produced by all oil mills from January, 1918 to September 30, 1918, was 96,540 tons. To produce this oil, 172,393 tons of copra was required if a 56 per cent extraction was realized. From January 1, 1918 to September 30, 1918, 52,485,727 kilos or 57,734 tons was exported. Assuming that oil can be manufactured and copra exported for the remainder of the year at the same rate that oil was manufactured and copra exported from January 1, 1918 to September 30, 1918, the total amount of copra available for export or manufacture into oil will be 306,836 tons. No one, however, estimates that the copra produced in the Philippine Islands in

1918 will reach the 340,880 tons required to maintain the rate of oil production reached in October, 1918. Steps have already been taken by certain mills to import copra from nearby countries.

The transporting of coconut oil from the Philippine Islands to the United States assumed a new phase when it was discovered that the Standard Oil Company's tankers which had been used for bringing petroleum products to the Orient could be used on the return trip for carrying coconut oil. To handle vegetable oil in bulk, coconut oil companies require loading facilities in Manila and unloading and storage facilities at destination. Due to the high price of materials but very few companies possess these facilities. Lack of these facilities places the small producers largely at the mercy of those companies which can handle the oil quickly at both ends of the voyage. There is an opportunity for business men to establish relations with the smaller producers, some of whom can produce oil at the rate of 1,000 tons a month, for furnishing storage and land transportation facilities at Pacific Coast ports of the United States.

More steamers for handling coconut oil in bulk are needed. During the war it has been impossible to secure the amount of space needed for transporting coconut oil in bulk. The total capacity for bulk oil of all ships calling in the Philippine Islands is approximately 35,500 tons. Allowing for a round trip every three months, these ships will move not more than 12,000 tons per month. Fifteen thousand eight hundred and eight tons of oil were produced in October, 1918. If this rate is maintained, there will be 3,808 tons of oil per month which must either be shipped in barrels or which will accumulate. The capacity of the barrel factory in Manila is 500 barrels per day which is 4,000 barrels per month less than that needed to move the 3,808 tons of oil which cannot be shipped in bulk. The capacity of the barrel factory is to be increased, and it will be able to handle more than 3,808 tons of oil per month, but shipping in barrels has not been as satisfactory from the standpoint of the oil producer as is shipping the oil in bulk.

At the present time the Governor-General as representative of the United States Shipping Board, allots space on all vessels carrying coconut oil from the Philippine Islands. Because of this procedure the small producer is assured of a market for his oil provided he can make arrangements for loading and unloading his oil. However, the alloting of space may be suspended when the war is over and when the return to normal conditions is under way. The two large tankers with a capacity of 24,000 out of the 35,500 tons of bulk oil are chartered by one company.

What effect the removal of Government control over the space on tankers might have upon small producers is problematical.

The development of the commercial use of the by-products incident to the manufacture of coconut oil is not as far advanced in the Philippine Islands as is the manufacture of the coconut oil itself. Still it is under way. One company at least is directing its attention largely to the manufacture of potash from copra cake. Plans are under way to develop this phase of the industry so as to compete with European oil producers.

TABLE No. 9.—Sugar exports—Quantity and value exported, 1899-1918.

Year.	Quantity.	Value.	Average value per 100 kilos.
1899	65, 190, 961, 56, 472, 593, 98, 596, 473, 85, 307, 972, 87, 053, 061, 108, 498, 717, 129, 453, 709, 127, 917, 216, 144, 735, 001, 129, 327, 480, 121, 471, 544, 209, 044, 397, 197, 075, 995, 157, 333, 707, 236, 498, 001, 211, 012, 817, 337, 490, 000	P6, 919, 420 4, 794, 288 5, 112, 626 6, 692, 300 6, 650, 468 6, 185, 504 10, 146, 466 9, 108, 184 8, 391, 32 11, 407, 282 11, 216, 574 14, 448, 770 22, 151, 346 22, 119, 186 22, 620, 430 37, 166, 185 24, 555, 357	P8.06 7.35

^a From January 1 to June 30 only. Quantity and value includes centrifugal sugar amounting to 25,407,580 kilos valued at 75,236,547.

Peturn to
BUREAU OF INTERNATIONAL RELATIONS
University of California

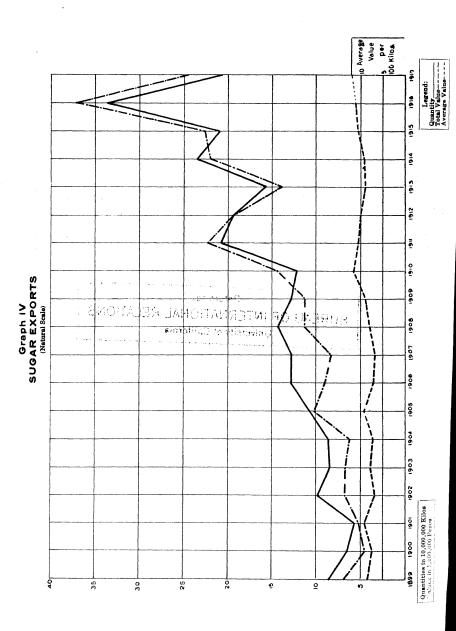


TABLE No. 10.—Cigar exports—Quantity and value exported, 1899-1918.
[Source: Bureau of Customs.]

Year.	Quantity.	Value.	Average value per 1,000.
	Thousands.		
899		P1, 181, 398	P9. 68
900		2, 316, 834	13.4
901		3, 664, 898	15. 3
902		1, 977, 036	16. 78
903		1, 922, 710	16. 16
904	104, 753	2,011,790	19. 2
905		1, 785, 122	18.6
906		2,008,014	18.48
907		2, 118, 764	18.5
908		2, 118, 656	18. 28
909		3, 509, 058	23. 1
910		5, 519, 322	29. 9
911		3, 803, 726	28. 2
912		6, 184, 128	32.4
913		6, 024, 468	31.49
914		4, 630, 318	29.9
915		4, 114, 605	30.50
916		5, 688, 751	29.4
917		5, 615, 409	33, 60
918.		5, 615, 409	37.5

^{*} From January 1 to June 30 only.

Peturn to
SUREAU OF INTERNATIONAL RELATIONS
University of California

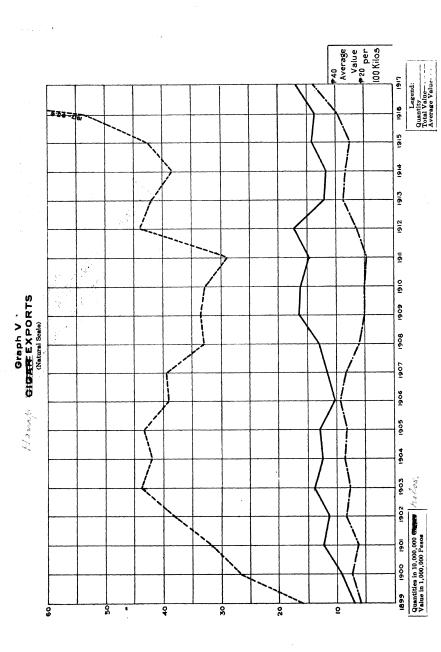


TABLE NO. 11.—Thirteen countries receiving the greatest Philippine exports.—Value of the three most important articles exported to each country in 1918 and 1917.

[Source: Bureau of Customs.]

		1918				1917		
Country.	Rank.	Articles.	Value.	Percentage on total exports to each country.	Rank.	Articles.	Value.	Percentage on total exports to each country.
United States United Kingdom France France Bapan Hongkong Spain German China British East Indies Australiasia Belgium Italy	100 88 100 111 112 113 113	Hemp, tobacco, and sugar Hemp, copra and tobacco. Gopra, tobacco and knotted hemp Sugar, hemp and copra. Tobacco, copra and hemp Copra, cocontt cake and hemp Sugar, tobacco and hemp Copra, tobacco and fibers. Hemp copra and tobacco. Hemp, copra and tobacco. Hemp, copra and tobacco. Hemp, tobacco and fibers.	P26, 023, 916 16, 986, 006 10, 589, 1278 7, 688, 142 8, 143, 914 3, 165, 808 1, 219, 232 988, 999 1, 219, 232 988, 999 988, 994	58888888888888888888888888888888888888	187-84000000040	Hemp, copra and sugar Hemp, sugar and tobacco Copra, knotted hemp and tobacco Hemp, sugar and copra Hemp, sugar and tobacco Copra, hemp and tobacco Sugar, tobacco and fibers Hemp, tobacco and sugar Hemp, tobacco and sugar Knotted hemp	P82, 338, 515 19, 473, 378 19, 473, 378 13, 082, 992 18, 896, 878 3, 406, 675 1, 707, 990 1, 717, 920 2, 358, 778 234, 522	65. 11 94. 48 89. 27 88. 22 98. 63 98. 63 99. 99. 99. 99. 99. 99. 99. 99. 99. 99.

Norg.-The tenth, eleventh, twelfth and thirteenth places were occupied by Canada, Switzerland, Hawaii and Dutch East Indies, respectively, in 1917

SURCELLOR MANAGEMENT ON BEATONS

Table No. 12.—Value of most important exports of the Philippine Islands from 1908 to 1918.

Article.	1908	1909	1910	1161	1912	1913
Hemp Nogar Choosing oil	P33, 003, 912 11, 407, 282 684, 560	P33, 792, 000 11, 216, 574	P32, 950, 622 14, 448, 770	P28, 970, 254 22, 151, 346	P44, 151, 342 19, 600, 680	P42, 242, 168 14, 065, 778
Copts Copts Tobacco	12, 117, 772 5, 652, 084	15, 345, 730	21, 278, 098 8, 817, 962	26, 039, 124	28, 366, 932	19, 091, 448 9, 933, 986
maguet Exports foreign merchandise Knotted ham	306, 442	268, 808	391, 714 705 404	499,672	608,608	1, 101, 302 784, 468 1 131 402
Hats Limber	290, 988	478, 180	557, 826	880, 492	925,114	817, 878
Shells Pearl buttons	239, 656	276.418	428, 704	533, 446	650, 172	751, 582
	1, 172, 902	1,244,902	1, 235, 248	1, 472, 946	1, 760, 086	219, 150 188, 270 2, 144, 592
Total	65, 202, 144	69, 848, 674	81, 256, 926	89, 674, 254	109, 846, 600	95, 545, 912
				-		

TABLE No. 12.—Value of most important exports of the Philippine Islands from 1908 to 1918—Continued.

Article.	1914	1915	1916	1917	1918*	Per cent to total exports	cent to exports.
						1913	1917
Hemp Sugar	389,	8,	P53, 384, 598	615	9	8	i
Coconut oil	i;8	8	87, 175, 185	555	32	13.72	
Copra	15, 960, 540	22, 223, 109	14 231 941	16 654 204	22, 312, 205	2.39	11,8
Maguey	322	ŝ	11, 652, 349	Š	5,5	25.55	
Exports of foreign merchandise	834, 114	6	3, 479, 978	96	3.5	3.5	
Knotted hemp	1, 107, 640	ą:	3, 208, 678	22	4	38	
Impher	627, 762	514, 138	1,000,517	8	689, 969	1.18	
Shells	619, 528	470, 551	981, 288	6	270, 271	8.	
Pearl buttons	680, 662	602, 511	503, 151	284, 627	901, 104	85	
Soconut cake	122, 234	161, 481	244, 282	224, 630	61, 183	8	
rii nuts	44 694	000	45,921	36, 999		8	
All other domestic merchandise	1, 904, 720	2, 494, 989	14, 434	1,038	128	13	ij
Total			2, 166, 000	0,000,010	101, 644	2.24	3.45
	97, 379, 268	107, 626, 008	139, 874, 365	191, 208, 613	116, 324, 989	100.00	100.00
the second content of							

a January 1 to June 30 only.

Table No. 12.—Value of most important exports of the Philippine Islands from 1908 to 1918.

[Source: Bureau of Customs.]

Article.	1908	1909	1910	1911	1912	1918
Hemp Sugar Cocont oil Copra Marucy	P38, 008, 912 11, 407, 282 684, 560 12, 117, 772 5, 652, 084 326, 546	P33, 792, 000 11, 216, 574 15, 345, 730 6, 649, 068 576, 994	22, 950, 622 14, 448, 770 21, 278, 098 8, 817, 962 405, 186	22, 151, 346 22, 151, 346 26, 089, 124 7, 636, 162 587, 112	28, 366, 932 19, 600, 680 28, 366, 932 10, 726, 764 1, 098, 584	P42 , 242, 168 14, 065, 778 2, 292, 678 19, 091, 448 9, 983, 986 1, 181, 902
Exports of foreign merchandise Knotted hemp Hats	306, 442	268, 808 478, 180	391, 714 705, 404 557, 826	499, 672 843, 976 880, 492 59, 794	608, 608 1, 722, 370 925, 114	784, 468 1, 131, 402 817, 878 623, 314
Shellmert Shell begriff but tons Peerl but to the Cocount cake	239, 656	276.418	428, 704	533, 446	650, 172	751, 582 77, 346 219, 150
Pili nuts All other domestic merchandise	1, 172, 902	1,244,902	1, 235, 248	1, 472, 946	1, 760, 086	2, 144, 592
Total	65, 202, 144	69, 848, 674	81, 256, 926	89, 674, 254	109, 846, 600	95, 545, 912

Article.	1914	1915	1916	1917	1918*	Per cent to total exports	cent to exports.
						1918	1917
	- 3						
dinary	88	P42, 678, 200	P53, 384, 593	P93, 615, 559	85	44. 21	88.98
Sugar.	139	22, 620, 430	37, 175, 185	24, 555, 357	351	13, 72	12.84
Coconit oil	5, 238, 366	5, 641, 003	7,851,469	22, 818, 294	312	2.39	11
Copra	8	22, 223, 109	14, 231, 941	16, 654, 301	079	18.98	2
Tobacco	32	7, 409, 868	11, 652, 349	14, 301, 081	13, 237, 918	12.45	7. 53
Maguey	834, 114	1,070,407	3, 479, 978	4, 696, 493	299	- 23	. 45
Exports of foreign merchandise	1, 107, 640	1, 104, 252	3, 208, 678	3, 324, 851	4	8	% i-
Knotted hemp	1, 141, 574	611, 493	1,065,317	1,880,159	689 989	- 2	: :
Hats	627, 762	514, 138	1,313,226	1, 390, 833	470, 271	25	
Clumber Clumber	619, 528	470, 551	981, 288	823, 496	329, 184	8	
Shells Doctor	680, 662	602, 511	503, 151	284, 627	201,360	2	. 14
Court of the court	122, 234	161, 481	244, 282	224, 630	61, 183	8.	11.
Dill cake	233, 624		45,921	36, 999		23	8
A THI LINES	44, 624	23, 576	14, 434	1,038	128	. 19	
All otner domestic merchandise	1, 904, 720	2, 494, 989	4, 722, 553	6, 600, 875	161, 644	2.24	3.45
Total	97, 379, 268	107, 626, 008	139, 874, 365	191, 208, 613	116, 324, 989	100.00	100.00

a January 1 to June 30 only.

Table No. 13—Foreign trade of the Philippine Islands from 1899 to June 30, 1918.

[Source: Bureau of Customs.]

1899			Aggregate.		P	er capit	a.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Year.	Imports.	Exports.	Total trade.			Total.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1899	P38, 385, 972	₱29, 693, 164	₱68, 079, 136	P5.027	P3. 889	P8. 916
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1900	49, 727, 558	45, 980, 746	95, 708, 304	6.512	6.022	12, 534
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			49, 006, 706	109, 331, 648	7.901	6.418	14.319
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			57, 343, 808	124, 028, 140	8.733	7.510	16. 243
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			64, 793, 492	132, 416, 260	8.856	8.486	17. 342
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1904	59, 155, 462	58, 299, 000	117, 454, 462	7.608	7.498	15. 106
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1905	60, 101, 100	66, 909, 548	127,010,648	7.589	8.449	16.038
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1906	52, 807, 536	65, 285, 742	118, 093, 320	6.548	8.095	14.648
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			66, 195, 934	127, 103, 354			15.476
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1908	58, 372, 240	65, 202, 144	123, 574, 384	6.979	7.795	14.774
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1909	62, 168, 838	69, 848, 674	132, 017, 512			15.498
1912 123,335.802 109,846,600 233,182,402 13.709 12,209 25.1191 1918 106,625,572 95,545,912 202,171,484 11.637 10.428 22. 1914 97,177,306 97,379,268 194,556,574 10.414 10.436 20. 1915 98,624,367 107,626,008 206,250,375 10.378 11.325 21. 1916 99,626,73 139,874,365 230,870,401 94,010,1446 28.3			81, 256, 926				20, 832
1913	1911	96, 048, 814					21.022
1914	1912	123, 335, 802					25.918
1915 98, 624, 367 107, 626, 008 206, 250, 375 10, 378 11, 325 21, 1916 90, 992, 675 139, 874, 365 230, 867, 040 9, 410 14, 466 23, 1916			95, 545, 912	202, 171, 484	11.637	10.428	22.06
1915	1914	97, 177, 306	97, 379, 268		10.414		20.850
1916 90,992,675 139,874,365 230,867,040 9.410 14.466 23. 1917 131,594,061 191,208,613 322,802,674 13.375 19,434 32.	1915	98, 624. 367					21.703
1917 131, 594, 061 191, 208, 613 322, 802, 674 13, 375 19, 434 32.	1916	90, 992, 675					23.876
T 90 1010	1917	131, 594, 061					32.809
June 30, 1918	June 30, 1918	89, 956, 940	119, 510, 245	209, 467, 185	8.985	11.938	20.928

TABLE No. 14.—Total foreign trade and trade balance for each year from 1899 to 1918.

[Source: Bureau of Customs.]

Year.	1	Foreign trade	· .	Increase o		Trade
Year.	Imports.	Exports.	Total.	Amount.	Per cent.	balance.a
1899	P38, 385, 972	P29, 693, 164	P68, 079, 136			(P8, 692, 808)
1900		45, 980, 746	95, 708, 304	P27, 629, 168	40.58	(3, 746, 812)
1901		49, 006, 706 57, 343, 808	109, 331, 648 124, 028, 140	13, 623, 344 14, 696, 492	14.28 13.44	(11, 318, 236) (9, 340, 524)
1903		64, 793, 492	132, 416, 260	8, 388, 120	6.76	(2, 829, 276
1904		58, 299, 000	117, 454, 462	(14, 961, 798)		(856, 462
1905		66, 909, 548	127, 010, 648	9, 556, 186	8. 14	6, 808, 448
1906		65, 285, 784	118, 093, 320	(8, 917, 328)		12, 478, 248
1907		66, 195, 734	127, 103, 354	9,010,034	7.63	5, 288, 114
1908		65, 202, 144	123, 574, 384	(3, 528, 970)	(2.78)	6, 829, 904
1909	62, 168, 838	69, 848, 674	132, 017, 512	8, 443, 128	6.83	7, 679, 836
1910		81, 256, 926	180, 695, 648	48, 678, 136	86.87	(18, 181, 796
1911		89, 674, 254	185, 723, 068	5,027,420	(2.78)	(6, 374, 560
1912		109, 846, 600	233, 182, 402	47, 459, 334	25.56	(13, 489, 202
1913		95, 545, 912	202, 171, 484	(31,010,918)		(11, 079, 660
1914		97, 379, 268	194, 556, 574	(7,614,910)		201, 962
1915		107,626,008	206, 250, 375	11,693,801	6.01	9, 001, 641
1916		139, 874, 365	230, 867, 040	24, 616, 665	11. 93	48, 881, 690
1917		191, 208, 613	322,802,674	91, 935, 634	39.82	59, 614, 552
1918b	89, 956, 940	119, 510, 245	209, 467, 185	c77, 953, 126	59.27	29, 553, 305

<sup>a Figures in parentheses are decreases; in trade balance, they mean against Islands.
b From January 1 to June 30 only.
c Compared with same period for 1917.</sup>

The balance of trade for the first three quarters of 1918 amounted to P61,154,703. This is 52.5 per cent greater than the trade balance for the same period of 1917 and 37.4 per cent more than that of 1916.

TABLE NO. 15.—Comparison of monthly foreign trade of the Philippine Islands during the last three years. [Source: Monthly statements of the Bureau of Customs.]

:		Imports.		Increase of 1917 over 1916.	of 1916.	Increase of 1918 over 1917.	of 1917.	Increase of 1918 over 1910	of 1916.
Month.	1916	1917	1918	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.
January	P7, 926, 391	239.	484.	312.	16.56	P7. 245. 680		P8. 558. 552	107.98
February	4,804,897	7,449,533	11, 546, 512	2, 644, 636	55.04 38.04	4, 096, 979	54.99	6,741,615	140.31
April	6, 757, 355	8	268	675,	(6.38)	4, 186, 311		3,510,680	51.35
May Time	7, 227, 622	697,	<u>و</u> رو		8.8	5, 102, 411		8, 572, 038	118.60
July	9, 710, 614	66	2006 2006 2006 2006 2006 2006 2006 200		44.17	4, 564, 144		8,853,333	91.17
August	7, 627, 820	95,	785,	427,	71.16	2, 730, 065		8, 157, 548	5.63
September October	9, 460, 822	075 , 217.	347,		8.8 20.8	3, 272, 107		10, 235, 134	143.90
November	8, 945, 962	722,			19.85				
December	7,084,156	499,			76. 44				
Total	90, 992, 675	131, 594, 061	141, 654, 184	40, 601, 386	44.62	46, 498, 834	48.87	76, 152, 413	116.27

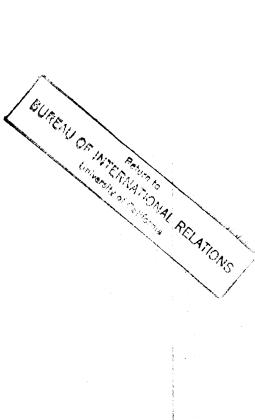


TABLE No. 15.—Comparison of monthly foreign trade of the Philippine Islands during the last three years—Continued.

;		Exports.		Increase of 1917 over 1916.	of 1916.	Increase of 1918 over 1917.	of 1917.	Increase of 1918 over 1916	of 1916.
Month.	1916	1917	1918	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.
January February March March May May June July September September October December	P11, 902, 944 9, 029, 570 12, 398, 236 9, 029, 170 14, 874, 944 16, 686, 339 14, 729, 900 9, 729, 964 10, 306, 674 10, 306, 872 10, 306, 872 9, 575, 609	P10, 954, 129 10, 906, 610 16, 455, 185 9, 588, 215 10, 548, 280 119, 042, 251 119, 627, 606, 559 22, 606, 559 22, 606, 483 16, 272, 361 14, 695, 559	P23, 648, 302 24, 245, 625 20, 831, 667 14, 011, 944 19, 631, 042, 158 80, 389, 996 22, 219, 564 30, 848, 598	(P948, 824) 1, 877, 040 4, 061, 949 4, 922, 045 (4, 331, 634) 2, 405, 912 (688, 070 13, 888, 070 8, 499, 595 15, 083, 806 5, 971, 979 5, 089, 960	(7.98) 20.78 32.78 32.78 5.41 (29.12) 14.47 14.82) 142.09 142.09 142.09 151.05 57.98	P12, 694, 182 13, 339, 015 4, 376, 482 4, 487, 687 9, 087, 684 16, 882, 083 16, 887, 68 (1, 408, 099) 10, 242, 029	115.89 122.31 26.53 46.24 86.18 86.18 (10.71) 124.44 49.70	P11 745, 358 15, 216, 055 8, 431 4, 225, 774 4, 756, 050 365, 819 16, 147, 095 12, 459, 974 18, 741, 624	98.68 168.51 68.09 54.15 31.97 2.20 113.61 127.68 154.80
Total	139, 874, 365	191, 208, 613	202, 808, 887	51, 334, 248	36.70	74, 454, 045	55.05	92, 496, 180	84.08

Norg.—Figures in parentheses are decreases.

The total value of imports to September 30, 1918, is 49 per cent greater than the total value of imports for the same period of 1917 and 116 per cent over that of the same period of 1916. The leading imports are oction and its manufactures, iron and steel and their manufactures, coal, fish and fish products, fibers (vegetable and textile), paper and its manufactures, leather and its manufactures, each of the same of the sa

The value of imports as shown in this bulletin is the foreign value of the merchandise in the country whence imported plus the cost of packing and all other expenses incident to placing the goods in condition for shipment to the Islands. The total value of exports up to September 30, 1918, is 55.05 per cent greater than the total value of exports for the same period of 1916. The principal exports are hemp, coconut oil, sugar, tobacco and its manufactures, copra, magney, knotted hemp, hats, embroderies, number, shells and pearl buttons. Coconut oil is rapidly developing into one of the leading exports of the Islands. At the end of September, 1918, there were seventeen mills in operation which produced 14,989 tons of oil during the same month. From January 1 to September 30, 1918, 96,850 tons of oil were produced.

The value of exports as shown in this bulletin is the price of the goods as sold by the exporter to the foreign consignee; however, in those cases that exported merchandise are sold abroad to the account of the exporter, the export values include all expenses incident to placing the goods in condition for shipment from the Islands.

TABLE No. 16.—Foreign trade of the Philippine Islands showing per cent of United States trade to total trade.

[Source: Bureau of Customs.]

	Im	Imports from-		Ē	Exports to-	and the second	Total	Total trade with—	
Year.	United States.	All countries.	Per cent.	United States.	All countries.	Per cent.	United States.	All countries.	Per cent.
9061	955.	807.	17.0	738,	285,	36.4		093,	27.7
1907	135	206	16.6	658	195	31.2		103	24.2
1908	203	372.	17.5	901	202	32.1		574,	25.2
	890	168	20.7	453	848	42.2		017,	32.1
1910	137		40.4		81, 256, 926	42.4	74, 620, 534	180, 695, 648	41.3
1911	313,	048	39.9	845	674.	44.4		723,	42.1
	618	335	39.4	764	846	41.7		185	40.5
1913	352	625	50.0	898	545,	34.4		171,	42.6
1914	025	177.	49.4	855	379,	50.2		556,	49.8
1916	762	624	53.5	306,	696	44.0		250,	48.5
1916	725	992	50.3	596	874,	51.0		867,	50.7
71617	241.	594	57.2	468	208	66.1		805	62.5
1918a	53, 750, 742	89, 956, 940	59.8	76, 452, 837		64.0		467,	62.1

a From January 1 to June 30 only.

TABLE No. 17.—Total and per capita foreign trade of important countries.

[Source: Statistical Abstract of the United States, 1916.]

Country	Veer	Population		Foreign trade.			Per capita	
. (1 001.	Tobarana.	Imports.	Exports.	Total.	Imports.	Exports.	Total.
	1							
L. Switzerland	1915	86	8	304	88	P161.88	P165.29	P327, 17
2. Cuba	1915	17	770	996	726,	111.95	187.11	299.06
3. Denmark	1914	8	274	202	476	147.50	144.71	292.21
4. United Kingdom	1915	46, 407, 000	7, 327, 306, 000	3, 745, 926, 000	11, 073, 322, 000	157.89	80.72	238.61
5. Norway	1914	22	99	394	454	122.26	85.00	207.26
6. Argentina	1915	88	905	482	384	55.54	136, 65	192, 19
7. Porto Rico	1916	16	905	463	366	64.06	109, 76	173.82
8. Uruguay	1915	16	552	594	146	55, 13	115.19	170.32
9. Sweden	1914	8	622	85	604	68.60	72.88	141.48
10. United States	1916	59	.892	796	940, 564	43.09	84.96	128.05
11. France	1915	g	754	608	362	78. 51	29, 39	107.90
12. Costa Rica	1915	ģ	948	944	28, 902,	21.33	47.49	68.82
13. Italy	1915	36, 120, 000	944,	534,	478,	35, 60	23.69	59.29
14. Spain	1914	356,	98	710,	670,	19.21	16. 10	35.31
16. Brazil	1915	8	89	560,	410,	11.90	20.96	32.86
16. Honduras	1915	562,	748,	284,	032,	20.90	11.18	32.08
I'l. Bolivia	1915	8 8 8	578,	134,	712,	9.08	25.65	31.73
	1915	816,	940,	808	748	9. 57	16.62	26.19
19. PHILIPPINES	1915	503	624,	626,	250	10.38	11.33	21.71
PHILIPPINES	1916	670,	993	874,	367	9.41	14.47	23.88
PHILIPPINES	1917	8 9, 839, 000	594,	602	808	13, 38	19.43	32.81
20. Japan	1915	084	320,	474,	79,	9.63	12.81	22. 44
Zl. Nicaragua	1915	704	318,	134,	152,	8.97	12, 97	21.94
Zz. Columbia	1915	5, 072, 000	728,	758,	£86,	6.85	10.99	17.84
	_			_	-	-		

^a Figures are from Prof. Beyer's "Population of the Philippine Islands in 1916."

TABLE No. 18.—Commercial relation of important countries with the Philippines. [Source

States.]
e United
ct of th
1 Abstra
Statistica
1916 bu
Customs an
reau of
of the Bu
Reports c
rce:

		Population.	ion.			Foreign commerce.	merce.		Per cent of trade-	of trade-
Country.	Area.	Latest available data since 1915.	Per square mile.	Year.	Total imports.	Imports from Philip- pines in 1917.	Total exports.	Exports to Philippines in 1917.	With P. I. to its total trade.	With P. I. to total P. I. trade.
	Sq. miles.				Thousand.		Thousand.			
	3, 627, 557	103, 559 2	28.55 37.55	1916	P5, 395, 768 P126,	468, 71	7 78, 544, 796	P75, 241, 295	-i.e	62.49 63.49
3. United Kingdom	121, 438		382, 15		7, 327, 306	610, 16	3, 745, 926	5, 922, 471	25.	8 65 75 75 75 75 75 75 75 75 75 75 75 75 75
	3, 729, 665		2.17	-	1,015,634	0.00	1, 483, 222	28, 560	.05	.35
	3, 078, 162		1.96	~~~	827, 638	380, 54	827, 626	3, 597, 566	.37	1.85
	4, 278, 352		78.54	-	583, 926	324, 51	512, 686	8, 514, 651	1.17	3,95
5. Spain	195,057		104.36		390, 960	474,05	327, 710	1, 406, 958	89.	1.51
	13, 199		480.34		2, 272, 498	1	2,004,966	176,910	100.	90.
Dutch East Indies	739, 545		51.38		308,888	490,64	515, 106	2,000,172	.40	.77
Switzerland	15,945		243.71		629, 084	366, 15	642,304	753, 974	60.	.35
Siam	195,000		41.79	-	55,834	44,46	78, 422	108,984	99.	83.
Italy	110,660		326, 45		1, 285, 944	234,52	855, 534	192, 790	80.	. 13
Denmark	15,047		192.06		426,274		418,202	87, 417	10.	ප.
Belgium	11, 373		673.35		1,949,246		1, 434, 304	43,606	.001	.01
	124, 675		19.95		304,060	1	211,394	29,858	900.	600.
Austria-Hungary	261,241		200.46		1,383,076		1, 124, 494	2,063		

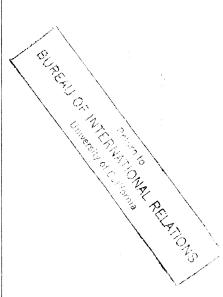


TABLE No. 19.—Total oriental trade of the Philippine Islands.

[Source: Bureau of Customs.]

. Country.	1908	1909	1910	1161	1912	1918	1914	1916	9116	1917	1918a
Australesia British East Indies China Ducth East Indies French East Indies Hongkopg	P5, 531, 430 3, 211, 760 7, 215, 478 648, 096 11, 098, 900 6, 021, 840	P5, 924, 092 3, 421, 736 8, 234, 286 966, 006 9, 441, 428 5, 208, 570	P5, 998, 134 4, 202, 700 6, 634, 614 634, 178 13, 368, 294 3, 445, 468	P6, 052, 626 4, 323, 710 5, 083, 316 850, 748 13, 710, 512 3, 668, 672	P7, 916, 924 7, 370, 270 6, 027, 866 1, 176, 300 22, 802, 178 4, 876, 192	P6, 590, 002 3, 984, 732 7, 661, 436 974, 488 5, 439, 842 7, 416, 752	P6, 055, 802 3, 802, 882 7, 211, 756 219, 226 6, 279, 490 4, 646, 130	P3, 987, 567 3, 665, 228 7, 905, 655 262, 568 13, 832, 463 7, 347, 405	P3, 115, 795 4, 772, 756 9, 705, 062 2, 429, 913 13, 019, 776 8, 426, 861	P5 977, 807 4, 339, 107 12, 839, 167 2, 490, 819 11, 309, 048 11, 164, 093	P4, 747, 614 2, 928, 236 8, 974, 878 1, 154, 086 6, 518, 578 5, 440, 496
Japan (including Japan-China and Korea)	3, 461, 402 579, 852	3, 788, 758 325, 866	5, 822, 764 261, 486	6, 489, 508 935, 756	11, 257, 114 732, 488	14, 892, 304 954, 660	13, 578, 848 691, 036	15, 181, 336 642, 243	19, 460, 128 658, 949	31, 428, 350 753, 449	18, 759, 922 709, 045
Total	37, 768, 758	37, 310, 742	40, 367, 638	41, 114, 848	62, 159, 332	47, 914, 2 16	43, 485, 170	53, 774, 465	61, 589, 230	80, 291, 840	49, 232, 855
Per cent of total Philippine Islands trade	30.56	28.27	22.34	22.14	26.66	23.70	22. 35	26.07	26.68	24.87	23. 50

* From January 1 to June 30 only.

TABLE No. 20-Internal revenue licenses issued from 1909 to 1917, inclusive.

[Source: Bureau of Internal Revenue.]

				Number	Number of licenses issued	issued-			
Nature of business.	1909 а	1910	11911	1912	1918	1914	1915	1916	1917
Brewers Chiramodista manimists settings of	П	П	Ħ	201	9	15	15	15	20
Common carriers, etc	415	201	701	1, 472	2,028	3, 163	18,095	9,954	9, 594
Gustoms and immigration brokers Distillers and immigration brokers	37	24	31	23	20	221 23 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25		380	68 88
dical practitioners, etc	1, 975	1,944	2,097	1,558	1, 717	1,430	1,308	1,338	1,521
Manufacturers of, alu wnotesial deducts in motor spirits, mineral oils, etc	263 60, 815	124 64, 945	14,037	106 89, 147	95, 567	80,911	72, 525	77, 70, 858	173 79, 691 429
: ! !	64	99	70	65	88	184	259 85	208	និខន
Fear usung Red lets of merchandise Dhamsoidte familian and antidions						19,498	34,528	37, 506	41,904
Photographers, litographers, etc	189	183	253	283	324	203	409	417	488
4 Illucta and publishes account of a new contract of the contr	-			:		330	269	164	731
. ~ .	174 49	179	179 32	184 26	358 24	838	888	885	388 1288 1288 1288 1288 1288 1288 1288 1
Registered adeates in pronitive drugs Retail dealers in fermented liquor Retail dealers of tuba, basi, and tapuy	1,262	1,315	1,376	1,261	1,236	1,242	1,576	33,960	36,508
Retail itelaters of itel. Retail itquor dealers. Retail itquor dealers. Retail itquor dealers. Retail itquor dealers. Signs, signiyoards, and billboards.	1,270 1,055 21,094	1,370	1, 272 782 23, 585	900 662 25, 091	921 1, 338 25, 717	861 1,959 22,862 430	19, 917	20, 993 20, 993	1, 332 30, 966 904
Spoukpre haring Spoukprokers Tobacco dealers	73 27,815 155	145 28, 976 80	29, 721 67	31, 758 43	220 83, 200 68	32, 462 58	98 30,061 67	107 31, 466 86	110 87,083 81
Veterinarians Wholesale dealers in fermented liquors Wholesale liquor dealers Wholesale liquor dealers Wholesale paddlers of alcoholic and tobacco products Miscellaneous	408 169 509 (b) 4, 527	440 134 538 (b) 4, 104	472 143 553 (b) 4, 468	523 596 705 (b) 4, 970	599 337 792 (b) 4, 936	355 309 810 (b) 6,043	249 302 768 74 6, 910	19 298 862 105 6, 478	342 1, 176 145 7, 364
Total	122, 397	127, 379	140, 224	169, 722	189, 116	200, 500	234, 461	238, 444	276,008

No data available prior to 1909.

b See "Retail peddlers of alcoholic and tobacco products."

TABLE No. 21.—Foreign and domestic shipping.

[Source: Bureau of Customs.]

			For	Foreign.					Dom	Domestic.		
A	Entered	ered.	Cle	Cleared.	Ĭ	Total.	En	Entered.	CIE	Cleared.	To	Total.
N	Num- ber.	Register- ed ton- nage.	Num- ber.	Register- ed ton- nage.	Num- ber.	Register- ed ton- nage.						
1	1,083		1,010	1, 464, 448	2,043	2, 976, 350	8, 572	973, 941	8, 568 9, 218	978, 968	17, 140 18, 427	1, 952, 909 2, 084, 413
	862		872	1,715,268	1,734	3, 418, 952	9,263	1,075,124	9,306		18, 569	2, 128, 550
	949		808	1, 939, 079	1,852	3, 904, 772	11,454	1, 361, 872	11,461		22, 916	2, 724, 492
	734	1, 831, 212 1, 912, 756	747	1,868,811	1,575	3, 700, 023	9,831	1, 325, 854 2, 189, 938	9,920 11,489		19, 751 22, 949	2, 651, 223 4, 329, 634
	714		714	1,718,113	1, 428	3, 398, 805	12,349	1, 999, 357	12, 407		24, 756	4, 028, 764
	652		648	1, 464, 529	1,300	2, 920, 692	14, 584	1, 661, 232	14,818		29, 402	3, 350, 347
	297		305	730, 120	299	1, 438, 478	8, 603	830, 512	8,651		17, 254	1,674,972

^a From January 1 to June 30 only.

TABLE No. 22.—Freight rates of chief commodities from Manila to insular ports, showing difference in 1918 and 1918 on vessels more than 225 tons net register, per ton or cubic meter.

[Source: Order No. 16, Board of Public Utility Commissioners, as amended.]

14.85 21.60 32.50 10.80 21.60 82888888 88 1918 12. 25.015.4.29.05.5 Balabac. 4.7.4.81 2.8.20 2.6.60 3.8.20 3.8.20 3.8.20 1913 76.60 6.60 14.45 7.10 7.60 4.80 7.10 11.35 16.65 9.70 16.65 11.35 31.05 15.55 16.65 11.35 31.05 3882388 1918 5.522.152 Jolo. 1913 76.90 10.10 10.10 10.10 10.10 10.10 4.30 13.80 6.90 6.90 13.80 11.40 5.05714.65 21.80 32.60 10.95 21.80 1918 828282828 88 Zamboanga. 99.016.4.30.09.35 1918 4.7.10 13.20 13.20 13.20 13.20 11.60 4.85 7.10 8822822 **5**.0.444.0 12.40 17.55 17.55 26.35 8.80 13.50 1918 ಜಹ #2884288**8**8 Tacloban. ∞်ရှ - 監⊗禁以以後效效 3.30 11.30 11.00 11.00 10.20 1913 5.50 11.70 3.90 6.00 7.80 8.30 6.00 1918 $\frac{8.85}{13.30}$ 7.55 8.85 24.20 12.15 13.30 24.20 22.30 712, 15 12, 15 17, 80 26, 55 8, 85 13, 30 17, 80 * One ton is equal to 2,205 pounds or 1,000 kilos. Cebu. 1913 90.80 90.90 75.40 11.80 1.90 1.90 1.90 1.90 88 တ်က 11.05 11.05 16.00 8.00 12.15 16.00 1918 82 548584854 × 2 921882123822 74.90 10.65 3.55 7.10 1913 32 846884684 လက္လည္သည္က်လွတ္လည္ 11.90 17.30 26.00 8.65 13.15 8.65 13.15 7.30 13.15 23.80 111.90 113.15 8.65 8.65 23.80 1918 Legaspi 3. 25 10. 60 10. 60 10. 60 10. 60 1913 3.30 11.55 3.85 5.85 7.70 1918 79.60 9.60 21.30 7.10 11.10 6.05 11.10 7.10 18.90 9.60 11.10 7.10 7.10 21.15 Pandan. 4.4.9.9.9.4.9 9.8.39 8.8.39 8.89 8.89 8.89 585194851958 5841584951958 1918 32 1918 884558 22 222282228 212121212022 Aparri. 3.45 6.10 11.20 11.20 5.60 6.10 11.20 10.30 75.60 12.80 12.20 15.00 4.05 6.10 1918 Classifi-cation. C-15% C C C B B C C C C C D မွန္က်င္မီတမွ OA Rice in bags Silk and satins Flour: Wheat, rice, rye, etc Raw sacked Refined Manufactured..... Leather goods..... Stalks ron and steel: Bar, rod, etc..... logs: squared or hewn Jusi, piña and sinamay cloth. Cloth (not sinamay) Commodity. Copra, sacked or loose Cable rope Leaf

Norg.—Classification of important commodities:
Class A. Books, cacao, ground coconut, coffee, gasoline, lard, meat, condensed milk, dry goods in bales or cases, pickled onions, table salt, boots and shoes, tea, drugs, dry goods, groceries, liquors, and liquids.
Shoes, tea, drugs, dry goods, groceries, liquors, and liquids.
Class B. Attomobiles, cocontu oil, castor oil, fresh onions, imported oranges, imported soap, fresh vegetables, animals, Chinaware, cooking utensils, stove, furniture and trunks.

Class C. Bananas, castor beans, dried beans, green beans, fresh cabbage, sugar cane, asbestos, cement, loose coconuts, native corn, fresh native fruits, maguey leaves, sacked or loose maize, gariic, palay, native soap, agricultural implements, brick, matches, mats, native earthenware and poultry.

Table No. 23.—Passenger rates from Manila to Insular ports, showing difference in 1913 and 1918.

[Source: Order No. 16, Board of Public Utility Commissioners, as amended.]

_	First	Class.	Second	Class.	Third	Class.
Port.	1913	1918	1913	1918	1913	1918
Aparri Pandan Legaspi Iloilo Cebu Tacloban Zamboanga Jolo Balabac	P30.65 22.40 28.60 27.20 31.35 29.85 41.55 43.20 38.20	P45. 95 33. 60 42. 85 40. 80 47. 00 44. 75 62. 30 64. 80 57. 25	P21. 50 15. 70 20. 00 19. 10 21. 95 20. 90 29. 10 30. 30 26. 75	P32. 20 23. 55 30. 00 28. 60 32. 90 31. 35 43. 60 45. 40 40. 10	P12. 30 8. 40 11. 45 10. 90 12. 55 11. 15 16. 65 17. 30 15. 30	P18. 40 12. 55 17. 15 16. 35 18. 80 16. 70 24. 95 25. 95 22. 90

NOTE.—Children 3 years of age and over, or exceeding 1 meter in height, but under 12 years of age, shall be carried at one-half of the adult rate, according to class.

Table No. 24.—Land transportation (Manila Railroad Company.)

SOUTHERN LINE.

	m ()		Cars.		Pas	senger.	Fı	eight.
Year.	Total kilome- terage operated	Pas- senger.	Freig	ht.				
	(all tracks.)		Number.	Capa- city (tons.)	Number.	Revenue.	Tons.	Revenue.
1910	110. 891 142. 013 274. 330 332. 861 442. 516 512. 061 573. 180 579. 235	38 59 61 79 84 85 87 97	190 241 447 554 554 667 663 663	a 4, 872 3, 423 5, 586 8, 582 7, 707 10, 871 (b) (b)	1, 073, 014 1, 809, 810 2, 366, 836 2, 635, 343 2, 145, 648 2, 031, 651 2, 064, 691 2, 881, 393	P150, 625. 07 542, 907. 58 1, 003, 594. 67 1, 209, 987. 82 1, 150, 075. 36 1, 102, 308. 34 1, 158, 610. 34 1, 642, 878, 55	49, 085 169, 231 261, 269 308, 175 258, 832 273, 037 349, 330 494, 239	P40, 790, 07 176, 634, 78 340, 157, 31 448, 432, 15 538, 996, 72 604, 218, 94 800, 593, 71 1, 271, 076, 69

NORTHERN LINE.

1910 (b) 145 694 1911 505, 675 156 765 1912 537, 266 167 889 1913 550, 742 154 864 1914 (b) 164 898 1915 885, 814 161 901 1916 601, 013 161 897 1917 607, 649 145 946	(b) (b) (b) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	9 1, 819, 145, 18 1, 947, 891, 94 1, 785, 346, 06 1, 501, 955, 09 1, 510, 757, 29	(b) 462,744 558,208 792,858 (b) 391,401 469,190 565,591	(b) 965, 010. 40 918, 389. 33 1, 272, 544. 92 1, 153, 361. 16 930, 646. 26 1, 147, 220. 17 1, 554, 520. 29
--	--	---	--	---

^a Capacity for 174 freight cars.

^b Data not available.

c Capacity for 861 cars.

Table No. 25.—Automobiles registered, 1912-1918.

[Source: Bureau of Public Works.]

	191	2-1915	1	916	1	917	1	918 a
Provinces and cities.	Num- ber.	Capacity (pas- senger.)	Num- ber.	Capacity (pas- senger.)	Num- ber.	Capacity (pas- senger.)	Num- ber.	Capacity (pas- senger.)
Albay	65		80	995	59	285	94	443
Ambos Camarines	24		34	257	16	71	40	212
Antique					8	15	5	24
Bataan	2		1	5	5	25	2	9
Batanes								
Batangas	27		42	269	31	153	70	391
Bohol	7		22	122	8	36	66	424
Bulacan	76		86	580	66	425		
Cagayan	2		5	73	2	10	17	117
Capiz	15		27	168	16	80	59	373
Cavite	17		14	68	18	95	48	256
Cebu	81		121	796	101	469	173	943
Ilocos Norte	11		27	174	10	47	31	181
Ilocos Sur	42		62	503	36	191	85	460
Iloilo	142		155	803	164	744	235	1,247
Isabela							1	10
Laguna	43		43	299	37	178	75	392
La Union	18		18	119	1	5	19	105 359
Leyte	18		36	640	8	39	64	309
Masbate	2						.1	
Mindanao and Sulu	55			.,				
Agusan								
Bukidnon		.			(
Cotabato								105
Davao		.;	. 5	22	8	37	38	195
Lanao			. 5	25			4	20
Sulu			11	59	3	17	17	86 205
Zamboanga			43	284	12	57	41	200
Mindoro	l	.						414
Misamis	. 4		. 9	48	21	105	55	
Mountain	4		1	5	15	73	6	30 260
Nueva Ecija	. 18		24	130	21	106	46	200
Nueva Vizcaya								1, 440
Occidental Negros	176		244	1,367	121	608	265	1,440
Oriental Negros	. 10		17	119	14	74	26	109
Palawan						040	97	504
Pampanga	. 45		. 73	399	68	348		366
Pangasinan	40		. 36	198	51	253	72	747
Rizal	140		148	795	100	518	137	92
Samar	. 11		. 10	70	4	22	14	270
Sorsogon	. 14		27	240	3	19	43 1	210
Surigao						30	19	111
Tarlac	. 8			37	6		58	365
Tayabas	82		. 57	387	38	208	95	20
Zambales			1 200	6	0.010	11 400		11, 241
Manila	1,701	6, 560		9, 185	2,312	11,400	2, 353	239
Baguio	. 21		-) 3 8	249	249		- 35	200
Total	2, 921	6, 560	3, 221	19, 496	3, 328	16, 743	4, 415	22, 722

^a From January 1 to June 30 only.

TABLE No. 26.—Trucks registered, 1912-1918.

[Source: Bureau of Public Works.]

	191	2-1915		1916		1917			1918 a	
Provinces and cities.	Number.	Capacity	Number.	Capacity	Number.	Сара	city.	Number.	Capa	city.
	Num	(ton- nage.)	Num	(ton- nage.)	Nun	Tonnage.	Pas- senger.	Num	Tonnage.	Pas- senger.
Albay	22		10	10	13	29	150	24	6	745
Ambos Camarines	14		14	43	22	9	670	27	š l	820
Antique								1		15
Bataan										
Batanes										
Batangas					1	3		2		35
Bohol					1		20	2		40
Bulacan	2		1	5	1	5		3	5	35
Cagayan	2				2	8		2		60
Capiz					. 5	8	110	5	10	100
Cavite	1							11	10	160
Cebu	9		5	13	7	16	86	26	6	445
Ilocos Norte	4		4	7	4	6	86	5	10	70
Ilocos Sur	12				1	3		6	2	90
Iloilo	4		6	8	4	14	50	6		115
Isabela					1	2		1	5	
Laguna	21		20	104	26	115		16	53	105
La Union								3	8	30
Leyte	28		35	118	34	146	170	40	58	93 0
Masbate	2									
Mindanaoand			l							
Sulu	18		Í							
Agusan										
Bukidnon										
Cotabato								<u>-</u> -		
Davao					4	10		7	11	70
Lanao			9	139	5		130	10	3	190
Sulu			3		4	19		4		100
Zamboanga			1	6	3	11	20	15	8	370
Mindoro						·		1	4	**********
Misamis	1		2	2	4	8	32	14	24	165
Mountain			;-					1		30
Nueva Ecija			1	5	2		32	3		45
Nueva Vizcaya										015
Occidental Negros	4		3	13	6	24		14	23	215
Oriental Negros	2		3	5	6	19	30	7	. 2	165
Palawan									4	70
Pampanga			1	2	7	2 9	100	5 18	4	495
Pangasinan	7		1.4				120	18	23	495 15
Rizal	8		4	14	6	10	48	0	20	19
Romblon								1		15
Samar	7		E		1-19	60		8		195
Sorsogon	1		5	3	15	62		1		150
Surigao								1		15
Tarlac	5		2322	9				2	7	10
Tayabas	D .		. 1	9				2	1	
Zambales	278		196	b 458	164	595	112	209	758	320
Manila	278			55	164	095	70	209	4	70
Baguio	0		16	00	3	4	70	4	4	
Total	456		341	1,020	352	1, 137	1, 236	512	1,052	6, 340

a From January 1 to June 30 only.
 b The capacity of 62 trucks is unknown.

TABLE No. 27.—Rice mills.

[Source: Bureau of Agriculture.]

			1	lum	ber o	of ric	e m	ills.			E.
Province.	Steam.	Petroleum.	Hand power.	Water.	Hydraulic.	Gasolene.	Oil.	Animal power.	Unclassified.	Total.	Total maximum daily capacity.
Albay Antique Bataan Batangas Bohol Bulacan Capiz Cavite Cotabato Iloilo Laguna Laguna Lanao Leyte Mindoro Nueva Ecija Negros Occidental Pangasinan Sorsogon Tarlac Tayabas	5 22 40 4 14 1 1 22 	1 25 1 20 3 1 2 5	1 23 22 6	14	111	5	1	2	2	22 1 5 51 40 27 16 1 1 25 72 3 6 2 9 5 4 7 32	Ca-vans. 947 72 820 5,531 16 9,066 9,066 150 120 1,794 5,330 108 656 160 3,880 450 1,525 66 1,090 796
Zambales Total	137	70	 55	40	14	12	3	2	10	343	36, 189

Note.—The total daily capacity shown above does not represent the actual output of the mills but their potential maximum capacity.

Return to
SUREAU OF INTERNATIONAL RELATIONS
University of California

TABLE No. 28.—Cigar production and tax collected.

[Source: Bureau of Internal Revenue.]

	Num- ber of	An	nual product	ion.	Increase or d	ecrease.	
Year ending-	manu- factur- ers.	Local consumption.	Exported.	Total.	Quantity.	Per cent.	Tax.
June 30		, , , , , ,					
1906		74, 184, 537	94, 341, 542	168, 526, 079			PL 458, 644
1907		79, 476, 459	117, 766, 660	197, 243, 119	28, 717, 040	17,04	18,985,057
1908		82, 986, 278	115, 768, 509	198, 754, 787	1,511,668	0.77	19, 539, 444
1909	263	86, 800, 520	117, 849, 381	204, 649, 901	5, 895, 114	2.97	20.494.707
1910	124	89, 272, 890	196, 288, 438	285, 561, 328	80, 911, 427	39.54	21.354 669
1911	105	96, 115, 525	132, 135, 766	228, 251, 291	(57, 310, 037)	(20, 07)	22,663,044
1912	106	109, 924, 014	174, 994, 831	284, 918, 845	56, 667, 554	24, 83	25, 568, 758
1913	81	96, 193, 811	209, 457, 618	305, 651, 429	20, 732, 584	7.28	22, 829, 152
December 31—	1						
1913 a	81	94, 048, 488	188, 048, 508	282, 096, 996			22, 294, 617
1914	83	90, 624, 757	152, 509, 443	243, 134, 200	(38, 962, 296)	(13.81)	21, 076, 861
1915	77	46, 384, 157	137, 924, 235	184, 308, 392	(58, 825, 808)	(24.19)	28, 174, 655
1916	77	80, 518, 378	191, 349, 900	271, 868, 278	87, 559, 886	47.51	19,096,727
1917	173	104, 460, 749	307, 677, 458	412, 138, 207	140, 269, 929	51.59	126, 262, 954
1918 в		62, 468, 500	147, 896, 766	210, 365, 266			

^a From January to December 31.

Note.—Figures in parentheses indicate decreases.

TABLE No. 29.—Cigarette production and tax collected.

[Source: Bureau of Internal Revenue.]

	No. of	An	nual product	ion.	Increase or d	ecrease.	
Year ending-	ufac- tur- ers.	Local consumption.	Exported.	Total.	Quantity.	Per cent.	Тах.
June 30						*************	
1906		3, 509, 038, 750	21, 062, 844	3, 530, 101, 594	1		1
1907		3, 509, 999, 575	158, 349, 804	3, 668, 349, 379	138, 247, 785	3, 92	P236, 045, 5
1908		3, 774, 303, 310	72, 387, 396	3, 846, 690, 706	178, 341, 327	4.86	253, 465, 7
1909		4, 122, 385, 209	53, 250, 328	4, 175, 635, 537	328, 944, 831	8, 55	276, 698, 2
1910	124	4, 138, 647, 668	34, 859, 581	4, 173, 507, 249	(2, 128, 288)	(0, 05)	
1911	105	4, 058, 603, 123	35, 425, 865	4,094,028,988	(79, 478, 261)	(1.90)	
1912		4, 369, 153, 048	35, 776, 760	4, 404, 929, 808	310, 900, 820	7, 59	437, 671, 1
1913	81	4, 449, 340, 088	51, 431, 838	4,500,771,926	95, 842, 118	2.18	445, 989, 1
December 31—	1 1	ì			1		1
1913	81	4, 338, 233, 154	46, 574, 093	4, 434, 807, 247	[441, 304, 0
1914	83	4, 366, 293, 508	45, 628, 804	4, 411, 922, 312	(22, 884, 935)	(0.52)	438,077,0
1915		3, 814, 861, 007	44, 746, 258	3, 859, 607, 265	(552, 315, 047)	(12, 52)	456, 943, 9
1916	77	4, 135, 448, 970	45, 224, 542	4, 180, 673, 512	321, 066, 247	8. 32	498, 361, 1
1917	173	4, 540, 519, 812	57, 834, 687	4, 598, 354, 499	417, 680, 987	9. 99	538, 522, 3
1918b		2, 335, 993, 375	32, 489, 985	2, 368, 483, 360			

^{*} From January to December 31.

Note.-Figures in parentheses indicate decreases.

b From January 1 to June 30 only

b From January 1 to June 30 only

```
(To correct last columns of corres-
        pending tables, )
  Table No. 28 - Correct tax
     collected on eigers.
```

```
Year ending -- ;
  June 30-
   1906
              P181,998,61
   1907
               189,850,57
   1908
                195, 394, 44
   1909
                204, 847, 07
                21 3, 546, 69
   1910
   1911
Î
                226, 630, 44
                255, 687, 58
   1912
                 228, 291, 52
   1913
 December 31
                 222, 946, 70
  1913 (a)
ì
   1914
                 210, 763, 61
ì
   1915
                  281,146,55
   1916
                 190,967,27
                 262, 629, 54
   1917
   1918
                  214,110,01
able Ne. 29 - Correct Lam
```

```
11
```

cellected on cigarettes.

1

i

1

1

From Jan. 1, 1913 to Doc.

21, 1913.

1 P2, 357, 683,14

2, 360, 485, 49

2, 534, 657. 38

2, 766, 982, 39

3, 308, 804, 07

4, 067, 926,46

4,376,711.95

4,459,891,11

4, 413, 040, 34

4, 380, 770, 95

4, 569, 439, 50

4, 983, 611, 37

5, 385, 223, 82

5, 536, 566, 72

:Xeer ending- :

/une 30-

1906

1907

1908

1909

1910 1911

1912

1914

1915

1916

1917 1918

etember 31 ' 1913 (a)

1913

i

1

i

i

ŧ

 (\mathbf{a})

(To correct last columns of corresponding tables.)

Table Ne. 25 - Correct tax and soil seted on eighre.

		ei gare.	eallected en
i	z a	7	Year ending-
f == 02 ==	DE TROMP NO THE		•
1	THE HAT THE PER COLUMN		- OE anul ;
ì		181,988	,
Š		189,850	1 1907
•		195, 394	1 806T
i	10.	204, 847	1 1909 1
i	V O.	213, 546	1 0161
i		226, 630	i itei
i		255, 687	1912
1	56.	228, 291	6 167
i			December 31;
i		222,946	1 (*) 2181
Ī		210, 763	1 1074
: 1		281,146	1 978
i		190.961	1916
•		262, 629	1917
1	.O.	al 4, 110	1 1918 1
B en Annes An			able Ne. 29 - Ve
\$ An			· •
		e editor ne	collected on ci
	See and the see one	eedion ag	cellected on ci
	x 83,14	2 19 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18	cellected on expressions with the summer sum
i	x 63,14 85,49	a re the a a a a a a a a a a a a a a a a a a a	cellected on expressions of the control of the cont
i i i	83.14 85.49	m rettes T a 2 a 2 a 2 a 2 a 2 a 2 a 3 a 3 a 3 a 3	Zear ending-; Zear ending-; lune 30-; 1906 1907
i i i	83,14 85,49 57,28 82,39	28.77 6 2 3 57 6 2 2 3 50 4 5 2 5 3 4 6 6 8 2 7 6 6 8	Cellected on ci Xomr ending- Lune 30- 1906 1907 1908
	83,14 85,49 57,28 82,39	28.79.68 2.367.6 2.360.4 2.534.6 2.766.9 3.368.8	**Compartment of the control of the
	x 85,49 57,88 62,39 04,07	28.79.68 2.367.6 2.360.4 2.534.6 2.534.6 2.534.6 2.766.9	**Color **Colo
	x 83.14 85.49 57.28 04.07	2 357, 6 2 350, 4 2 350, 4 2 534, 6 2 534, 6 3 368, 8 4 376, 7	**Color **Colo
	x 83.14 85.49 57.28 04.07	28.79.68 2.367.6 2.360.4 2.534.6 2.534.6 2.534.6 2.766.9	**Color Color Colo
- 1. A -	x 83.14 85.49 57.28 04.07 24.07 11.95	28 re tes T a 2 357 6 2 534 6 2 534 6 2 536 8 3 306 8 4 376 9 4 459 8	**Color Color Colo
	x x 83.14 57.28 57.28 204.07 26,46	28.77 6 2 3 5 7 6 2 3 5 3 4 5 6 9 3 4 4 4 4 4 3 9 6 9 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	**Control
	x x 83.14 85.49 57.88 04.07 11.95 11.19 40.34	28.76 6 8 2 5 3 5 7 6 8 2 5 3 4 6 8 8 8 8 4 5 9 6 7 6 4 4 4 5 9 6 6 4 4 4 4 5 9 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6	**Control of the control of the cont
	x 83.14 85.49 57.88 04.07 11.95 11.95 40.34 70.95	28.7 6 4 4 4 3 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 8 6	**Color **Colo
· And · ***	x x 863.14 87.28 87.28 04.07 11.95 11.11 14.34 14.34 14.31	2 10 10 10 10 10 10 10 10 10 10 10 10 10	**COLLECTER ON CI. YORF ON CI. 1906 1908 1908 1908 1910 1911 1912 1913 1913 1914 1915 19
The transfer was the second to	20.14 57.26.49 57.26.49 004.07 11.95 11.95 10.11 37.95 39.50	28.7 6 4 4 4 3 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 6 8 6	**Colored on ci. Year ending-

⁽a) From Jan. 1, 1913 to Dec. 31, 1913.

TABLE No. 30.—Output of domestic distilled spirits.

[Source: Bureau of Internal Revenue.]

	Num-		Increase or d	ecrease.	Internal
Year ending—	ber of distil- leries.	Total Output.	Amount.	Per cent.	Revenue Tax.
June 30— 1905 a 1906 1907 1908 1909 1910 1911 1912 1913 December 31— 1913 1914 1915 1916 1916 1917 1918 1918	68 78 68 67 70 75 75 79 75 80	Proof liters. 3, 757, 191 6, 461, 949 8, 295, 848 8, 657, 925 9, 532, 537 10, 584, 124 10, 471, 299 11, 426, 728 11, 276, 298 10, 813, 114 11, 847, 354 7, 164, 723 10, 350, 363 15, 073, 758 8, 054, 172	Proof liters. 2,704,758 1,833,985 382,041 874,612 1,051,587 (112,825) 955,29 (150,430) 1,034,240 (4,682,631) 3,1*5,640 4,723,395		2,713,061.06 2,658,066.02 2,542,355.05 2,729,705.07

Act No. 1189 did not become operative on distilled spirits until January 1, 1905.
 "Cauas," or small primitive stills.
 From January 1 to June 30 only.

Table No. 31.—Factories and industrial establishments in the city of Manila in 1915.

[Source: Bureau of Labor.]

				Numl	per of la	borers er	gaged.	Aver-
Rank.	Factories and establishments.	Num- ber.	Value of output in 1915.	Male.	Fe- male.	Children under 16 years.	Total.	age daily hours of labor.
23	Aërated water	9	P248, 460	136	16	3	155	9
44	Bacon	ĭ	12,000	5			5	10
32	Bed	1	112, 288	25		3	28	9
4	Bread, biscuit and sweetmeat	46	1,603,079	615			615	8.8
3	Breweries	2	1,745,000	196 180	36 20		232	9
11	Button Candle	9	(c) 759, 821	46	20		200 46	9
19	Candy	11	366, 513	131			131	9
12	Caramel	14	756,646	89			89	10
25	Carpentry shops	54	224,011	147			147	9
31	Carriage and iron works	41	153, 123	268		1 1	269	9
20	Chocolate	29	318, 305	99	3		102	8
1 41	Cigar and cigarette	32	11,777,591	4,961	3,465	448	8,874	9
42	Comb	3	15, 400 13, 131	7			7	9
14	Dried and smoked fish	27	689,614	120	7	1	128	9
	Drug	i	(c)	11	3		14	9
40	Dyeing establishments	4	15,754	19			19	7
.6	Electric power plants	1	1, 536, 457	214			214	9.5
47	Fertilizer	1	4,061	8			8	(p)
46 16	Fish trapsFoundries, iron works and ma-	17	4, 955	52			52	(b)
10	chine shops	52	549, 734	425	1		425	9
13	Furniture	23	744, 518	304		3	307	9
24	Gas plants	1	243, 998	89			89	8
7	Hat and umbrella	15	1, 429, 671	316	149	31	496	8.5
26	Ice plants	3	221, 684	84			84	13
48	lnk	1	692	1			1	(b)
43 17	Line Machinery, foundry and ship-	2	12, 979	4			4	9
11	yard establishments	1	512,866	325		3	328	9, 5
18	Match	i	374,000	123	100	30	253	9.0
39	Musical instruments	12	16, 795	24			24	8
29	Oil	1	189, 208	21			21	8
38	Preserved foodstuff	6	20,000	15	55		70	9
15	Printing and book binding	43	633, 171	617	41	19	677	. 8
9 33	Rice mills	2	1, 141, 608	59	7		66	13
36	Rope	2	106,000 27,578	78 13	30	27	135 13	8.5 9
5	Saw mills	21	d 1, 584, 937	636		1	637	9
34	Sculpture and marble cutting		- 2,002,001	000			001	9
	shops	18	74,603	93		1	94	8
8	Shoe, slippers and other leather							
• •	goods	172	1,328,987	800	40	2	842	8.8
10	Soap	40	1,023,378	143	<u>-</u>	1	144	8
30 37	Soup-paste and sauce	13	163,859	86 12	9		95	9 9
22	Spinnery Tanneries	1 7	22, 400 272, 184	12 37			12 37	10
35	Tile and brick	2	66, 977	50			50	8. 5
21	Tin shops	51	299, 113	118			118	9.5
28	Trunk, harness and other							
	leather goods	9	192, 927	120	1		121	9
27	Weaving	1	214,000	105	100	8	213	.11
45	Wheel	2	10,349	100			5	(p)
2	Wine and liquour distilleries	11	2, 490, 561	160	20	1	181	9
	Total	823	34, 324, 986	12, 196	4, 102	583	16, 881	9

a Latest available data. b Without definite hours, c Unknown, d Production of 20 saw mills only.

Table No. 32.—Approximate areas of the larger Islands of the Philippine Archipelago.

[Source: Bureau of Forestry.]

		For	est.				
Order.	Island.	Commer- cial.	Non- commer- cial.	Cultivated land.	Cogon and open land.	Unex- plored.	Total.
1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1 22 23 24 25 6	Luzon Mindanao Negros Samar Panay Palawan Mindoro Leyte Cebu Bohol Masbate Catanduanes Basilan Busuanga Marinduque Dinagat Jolo Tablas Guimaras Polillo Sibuyan Tawitawi Biliran Siargao Culion Ticao	Ha. 4, 324, 484 7, 355, 008 644, 736 964, 096 96, 256 1, 035, 864 446, 272 345, 792 36, 800 100, 992 90, 496 36, 736 72, 832 7, 680 32, 768 4, 544 21, 108 30, 336 42, 624	Ha. 1, 767, 234 150, 272 45, 056 5, 120 225, 984 93, 680 195, 840 42, 624 31, 748 8, 200 7, 872 18, 368 5, 696 11, 904 6, 964 1, 280 2, 624 1, 600	5, 184	22, 400 42, 176 12, 736 7, 936 1, 536	93, 544	Ha. 10, 774, 784 9, 321, 600 1, 274, 112 1, 259, 776 1, 163, 200 1, 162, 752 1, 009, 984 708, 416 442, 644 104, 164 105, 696 78, 016 72, 704 40, 320, 560 48, 064 47, 104 40, 320, 560 48, 064 47, 104 40, 320, 565 465 465 465 465 465 465 465 465 465
27 28 29 30	Siquijor Balabac Dumaran Samal Other small islands	1, 152 30, 038 1, 280 8, 964	1, 280 7, 584	13, 760	15,616	27, 904	31, 808 30, 038 29, 184 27, 776 1, 959, 430
01	Total Per cent to total area	15, 939, 202	2, 659, 322 8, 579	3, 456, 972 11. 151	5, 249, 454 16, 934	3, 695, 050 11, 919	31,000,000

160787-4



TABLE No. 33.—Annual disposition of public lands from 1908 to 1917.

[Source: Bureau of Lands.]

	Issued. b	- Area.	Ha.			1,868		2,985	
Free patents	. I	Num- ber.			24.	381	-	2,076	2,216
Free 1	Applications received.	Area.	Ha.	11,964	35		5,890	5,848	9,070
	Appl	Num- ber.	9 045	4,495	8		1, 191	1,376	1,819
	Executed.	Area.	Ha.				6, 798	1, 706	13, 103
Leases.	Exe	Num- ber.					C - (27 10	33
Lea	Applications received.	Area.	Ha.	8,097	12, 399	37, 392 22, 161	26, 645	15, 616 20, 693	50,604
	Appli	Num- ber.	ä	885	44	112	86	103	166
	Accomplished.	Area.	Ha.	91	1,920	8, 907	177	2. 757	893
es.	Accom	Num- ber.	u		→ 60	5 6	12	3 2	20
Sales.	Applications received.	Area.	Ha.	544	3, 496	8,270 6,403	7, 690	3, 610	16,801
	Appli	Num- ber.	7	45	89	180	337	301	683
	Entries allowed.	Area.	Ha.	2, 138	1,372	3,855 3,909	7, 599	37, 990	69, 541
Homestead.	Englis	Num- ber.	606	157	101	309	284	3.345	3,330
Home	Applications received.	Area.	Ha.	25, 010	18, 192 32, 525	36, 963	72, 361	109,505	111, 733
	Appli	Num- ber.	90106	1,854	1, 427 2, 789	3, 105	5, 552	7,465	8, 922
	Fiscal year.		Ö	1909	1910	1912 1913	1914	1915 1916	1917

^a No data available for 1918. ^b Free Patent is issued five years after the filing of an application. The public lands of which there are 7,240,500 hectares suitable and available for agricultural purposes cover about 24 per cent of the entire area of the Archipelago and are disposed of by homesteads, leases, sales, and free patents. During 1917, 8,822 applications were received for homesteads, 166 for leases,

1.819 for free patents, and 683 for sales.

A honestead is a parcel of unoccupied and unappropriated nonmineral agricultural public land, not exceeding sixteen hectares, disposed of and granted to any citizen of the United States and the Philippine Islands who has resided upon the land for at least 2 years and cultivated it for the term of 5 years immediately succeeding the filing of application.

All unoccupied, unreserved, nonmineral, agricultural public land, are subject to lease upon annual payment of not less than 50 centavos nor more than 1 peso and 50 centavos per hectare, to any citizen of the United States and the Philippine Islands or to any association or corporation of persons for a period of not more twenty-five years, each lease not to cover more than one thousand and twenty-four hectares for each such person, association or corporation. A parcel of unoccupied, unappropriated, and unreserved nonmineral public land, not exceeding sixteen hectares for an individual and one thousand and twenty-four hectares for a corporation or like association, may be sold at a public auction to the highest bidder who must be a citizen of the United States Upon the expiration of said period the lease may be renewed by the same lessee for another twenty-five years.

Any native of the Philippine Islands who has continuously occupied and cultivated an unreserved, unappropriated agricultural public land since August 1, 1898, and who is now an occupant and cultivator of the same, is entitled to have a patent issued to him without compensation for such tract of land, not and the Philippine Islands. exceeding sixteen hectares.

TABLE No. 34.—Area of land cultivated with principal crops and average yield per hectare.

[Source: Bureau of Agriculture.]

						Staple crops	crops.					
	Abaca.	28.	Coconuts	uts.	Rice.		Sugar cane.	ane.	Tobacco.	.00	Total.	
Year ending June 30—	Area.	Aver- age yield per hec- tare.	Area.	Average sign per per per pectare.	Area.	Aver- age yield per hec- tare.	Area.	Aver- age yield per hec- tare.	Area.	Average sge yield per hectare.	Area.	Average sge yield per hectare.
1910 1911 1913 1914 1916 1916 1917	Hectare. 475, 136 404, 160 432, 804 368, 211 437, 470 4457, 865 446, 663 488, 100	Kilos. 355 425 368 382 315 338 342 329	Hectare. 164, 193 208, 421 230, 682 223, 212 245, 952 264, 148 275, 769 301, 220	Nats. 5,713 4,638 4,514 3,514 2,404 2,923 2,923	Hectare. 1, 193, 141 1, 043, 757 1, 078, 891 1, 141, 242 1, 244, 937 1, 130, 713 1, 140, 829 1, 225, 692	Kilos. 442 551 302 515 438 378 439 554	Hectare. 83, 168, 120, 313, 164, 261, 173, 092, 173, 092, 179, 761, 185, 931, 185, 931	Kilos. 1,835 2,027 1,475 1,654 2,045 2,081 1,948 1,949	Hectare. 53, 626 69, 015 57, 041 68, 991 60, 890 53, 342 58, 913 61, 776	Kilos. 525 370 519 688 767 718 698 792	Hectare. 1, 968, 264 1, 845, 666 1, 963, 679 1, 977, 774 2, 158, 685 2, 079, 160 2, 155, 589 2, 263, 119	Kilos. 789 843 666 810 891 879 857

^a Coconuts not included.

TABLE No. 34.—Area of land cultivated with principal crops and average yield per hectare—Continued.

					Minor crops.	crops.					,	
	Cacao.	og.	Coffee.	ee.	Corn.	Ė	Maguey.	ley.	Total	-	Grand tota	ta.
Year ending June 30-	Area.	Aver- age yield per hec- tare.	Area.	Average age yield per hectare.	Area.	Average age yield per hec-	Агеа.	Aver- age yield per hec- tare.	Area. b	Average yield per hec-	Area.	Average yield per hec- tare, a
1910 1911 1913 1918 1916 1916 1917	Hectare. Kilos. Hectare. Hetare. Heta	(c) (c) (c) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Hectare. (c) (c) (d) 1,068 (d) 839 (d) 844 (d) 844 (d) 844 (d) 844 (d) 844 (d) 660 (d) 660	Kilos. (c) (c) (d) 174 174 174 1795 828 891 901	Hectare. 579, 768 302, 516 340, 196 883, 709 421, 309 442, 048 428, 298	Kilos. 677 677 6827 662 870 912 894 863	Hectare. (c) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	Kilos. (c) (c) 587 587 390 416 435 612	Hectare, Kilos. 677 82 516 841 826 839 826 839 841, 488 641 842, 274 651 845, 688 685 886, 688 688 688 688 688 688 688 688 68	Kilos. 677 677 832 839 641 651 685 727	Hectare. 2, 548, 032 2, 148, 182 2, 314, 181 2, 374, 466 2, 600, 168 2, 621, 077 2, 721, 182	Kilos. 496 574 766 765 771

In 1917 the average values of the staple crops produced per hectare were as follows: Hemp, P129.95; coconuts, P105.23; rice, P65.93; sugar, P208.54; and tobacce, P175.82.
With the exception of magney which is exported, all the minor crops are consumed locally.

TABLE 35.—Quantity and value of production of principal crops.

[Source: Bureau of Agriculture.]

					Staple crops.	crops.				-
Year ending June 30-	Abaca	aca.	Coconuts	uts.	Ri	Rice.	Sugar	Sugar cane.	Tobacco.	.00.
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1910. 1991. 1912. 1913. 1916. 1917.	Kilos. 168, 452, 144 171, 879, 598 159, 473, 376 140, 520, 332 137, 635, 663 154, 192, 492 162, 756, 278 160, 963, 356	P26, 952, 343 27, 500, 736 28, 705, 208 32, 319, 676 39, 98, 742, 742 42, 767, 339 63, 538, 136	Nuts. 937, 927, 927 965, 155, 699 1, 041, 181, 904 781, 585, 504 591, 266, 399 865, 816, 826 735, 275, 751 880, 588, 806	PSS, 941, 626 26, 261, 273 35, 926, 543 30, 535, 664 24, 461, 884 24, 461, 884 24, 430, 955 31, 975, 496	Kilos. 528, 054, 408 574, 842, 688 325, 429, 092 687, 972, 592 545, 683, 584 501, 092, 736 678, 641, 208	P60, 620, 646 65, 991, 941 42, 305, 782 42, 305, 782 17, 722 57, 207, 978 49, 207, 978 55, 923, 821 81, 377, 812	Kilos. 152, 639, 327 243, 924, 574 242, 334, 659 241, 386, 825 346, 429, 556 360, 176, 309 350, 281, 946 362, 338, 084	P15, 263, 933 24, 392, 457 26, 428, 626 28, 636, 450 28, 631, 545 33, 212, 488 34, 136, 134 38, 704, 708	Kilos. 28, 006, 778 26, 518, 132 29, 583, 169 46, 060, 390 46, 731, 463 38, 302, 964 41, 139, 174 48, 928, 621	F7, 561, 830 6, 889, 896 7, 987, 456 7, 109, 367 5, 684, 579 7, 259, 169 10, 883, 523
						Minor crops	crops.			
Year ending June 30—	30-		Cacao.	жо.	Coffee		Corn.		Maguey.	ey.
			Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1910 1912 1913 1914 1916 1916			(a) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(a) (b) P66, 313 120, 047 354, 057 398, 991 345, 059 338, 600	Kilos. (*) (*) (*) 85, 948 113, 031 626, 408 624, 864 752, 196 594, 620	(a) (b) (b) (b) (c) (a) (b) (c) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Kilos. 392, 484, 164 145, 385, 666 253, 472, 645 253, 851, 359 366, 569, 673 387, 091, 282 369, 464, 047	P30, 191, 090 11, 184, 280 11, 497, 896 15, 231, 082 15, 873, 804 16, 667, 668 11, 639, 800	Kritos. (a) 4, 628, 331 4, 628, 331 3, 619, 976 7, 583, 802 13, 389, 722 17, 190, 019	(a) (b) (b) 470, 597 470, 597 860, 754 622, 587 1, 747, 263 2, 750, 403

* Data not available.

Table No. 36.—Consumption of rice in the Philippine Islands from 1902 to 1918.

[Sources: Reports of (1) Bureau of Customs and (2) Bureau of Agriculture.]

				Consump	tion.
Year ending June 30-	Import. (1)	Production. (2)	Exports. (1)	Total.	Per capita.
	Kilos.	Kilos.	Kilos.	Kilos.	Kilos.
1902 a	216, 403, 000	321, 038, 032		537, 441, 032	70.4
1910	184, 620, 000	528, 054, 408		712, 674, 408	82.2
1911	203, 083, 000	574, 842, 688		777, 925, 688	88.1
1912	260, 249, 653	325, 429, 092	5,748	585, 672, 997	65. 1
1913	179, 204, 906	685, 968, 024	1,785	865, 171, 145	94.4
1914	81, 788, 027	636, 630, 792	35, 729	718, 383, 090	77.0
1915	175, 541, 102	498, 917, 735	17, 142	674, 441, 695	70.1
1916	183, 016, 248	584, 608, 193	33, 370	767, 591, 071	79.4
1917	179, 912, 493	791, 748, 073	221, 453	971, 439, 113	98.7
1918	159, 130, 511	963, 152, 140	47, 542	1, 122, 235, 109	112.1

a Production is taken from Census of 1903.

TABLE No. 37.—Rice production and consumption by provinces from July 1, 1917 to June 30, 1918.

[Source: Bureau of Agriculture.1]

Province.	Produc- tion, 1	Estimated consumption.	Surplus.	Shortage.
	Cavans.	Cavans.	Cavans.	Cavans.
Abra	138, 142	133, 870	4, 272	
Albay	298, 679	600, 130	-,	301, 451
Ambos Camarines	366, 608	601, 885		235, 277
Antique	208, 016	328, 400		120, 384
Antique	1 3 3, 768	105, 300	28, 468	120,000
Batanes	141	17, 860	20, 400	17, 719
Batanes	323, 003	588, 805		266, 802
Batangas	350, 588	632,500		281, 912
Bohol	781, 514	516, 340	265, 174	201, 012
Bulacan	321, 757	395, 265	200,114	73, 508
Cagayan	653, 048	589,390	63, 658	10,000
Capiz				
Cavite	414, 471	323, 485	90, 986	1, 443, 592
Gebu	51, 728	1, 495, 320	0E4 000	1, 440, 592
locos Norte	635, 798	380, 935	254, 8 63	85, 794
Ilocos Sur	265, 206	351,000		85, 794
[loilo	1, 285, 063	934, 440	3 50, 62 3	105 004
Isabela	16,876	202,840		185, 964
Laguna	272,042	360, 305		88, 263
La Union	492, 187	304, 960	187, 227	
Levte	475, 19 8	982, 860		507, €62
Manila, city of		546, 895		546, 895
Mindanao and Sulu:			l	
Agusan	9, 309	122, 615		113, 306
Bukidnon		119, 455		119, 455
Cotabato	8, 257	200, 595		192, 338
Davao	20, 731	225, 790		205, 054
Lanao	16, 283	163, 510		147, 227
Sulu	175	227, 080		226, 905
Zamboanga	42,623	256, 505	l	213, 882
Mindoro	102, 109	131,000		28, 891
Misamis	98, 309	363,850		265, 541
Mountain	250, 593	795, 735		545, 142
Nueva Ecija	2, 267, 632	345, 150	1, 922, 482	
Nueva Vizcaya	97, 058	71, 215	25, 843	
Occidental Negros	413, 726	850, 650	20,010	436, 924
Oriental Negros	56, 565	544, 750	1	488, 185
Palawan	13, 797	133, 790		119, 993
	772, 119	554, 775	217, 344	110,000
Pampanga	2, 585, 344	1, 099, 020	1,486,324	
Pangasinan	342, 315	370, 830	1,400,524	28, 51
Rizal	63, 525	135, 800		72, 27
Romblon				528, 00
Samar	140,069	668,070		337, 380
Sorsogon	75,610	412, 990		51, 98
Surigao	189,664	241, 645		91, 961
Tarlac	1,019,161	344, 565	674, 596	161 011
Tayabas	360, 649	521,860		161, 211
Zambales	321,011	227, 255	93,756	
Total	16, 750, 472	19, 521, 285	5, 665, 616	8, 436, 429
Net shortage for the Philippine Islands in 1918				2,770,818

Note.—1 cavan is equivalent to 57½ kilos.

TABLE NO. 38.—Rice production by provinces from 1910 to 1918.

Agriculture
of
Bureau
Source:
ت

									The state of the s	
			'	رائي م ماري	Year	ending June	30			
	Province.	1910	1911	1912	1918	1914	1915	1916	1917	1918a
				K						
,	T	Cavan.	Cavan.	Cavan.	Cavan.	Cavan.	Cavan.	Cavan.	Cavan.	Cavan.
₹ <	Amen	9 117	0 998	(a)	13 000		<u> </u>		151,008	138, 142
•	Albav	101 979	46, 237	140, 970	954 818	991 199		189 160	980 997	
\ •	Ambos Camarines	166,320	331,662	68 972	395, 873	403 885		170,872	261,077	
	Antique	166, 756	182, 339	283, 611	179,670	357, 535		217, 902	223, 485	
,,,,,,	Bataan	73, 037	129, 780	88, 725	103, 662	90,691		96, 931	107,070	
'2.	Batanes		52	119	221	314	248	221	242	
	Batangas		89, 737	67, 545	324, 966	239, 421		227, 924	274, 256	
	Bohol		187, 439	136, 561	79, 156	173, 477		153, 709	270, 466	
	Bulacan		570, 419	112, 382	817,729	648, 929		602, 688	756, 835	
_	Cagayan		126, 510	160, 180	212, 275	192, 640		212, 069	236, 324	
_	Capiz		497, 749	455, 734	419, 699	650, 284		505, 069	678,811	
_	Cavite		176,881	71, 581	240,663	156, 674		200,826	401, 393	
-	Cebu		24, 973	29, 735	21, 583	23, 691		36, 286	43, 797	
	locos Norte		672, 986	297, 996	591, 276	272, 223		400,804	610, 382	
_	locos Sur		380, 400	173, 911	231, 321	272, 767		325,806	244, 277	
	loilo		404,838	320, 221	690, 923	898, 972		781, 479	1,042,344	
_	sabela		6,744	21, 225	10, 784	19,301		14, 337	15,330	
_	Laguna		140,916	206,069	187, 159	218,030		187, 518	251, 667	
_	La Union	327, 198	298, 534	121, 923	253, 809	232, 074		284, 111	392, 492	
_	Leyte		227,857	146,619	239, 364	404, 710		323, 542	329, 241	
_	Manila, city of									
	Mindanao and Sulu:									
	Agusan		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
	Bukidnon	(g	€	g)	€			-	1,259	
	Cotabato	<u> </u>	<u></u>	<u> </u>	€				9,050	
	Davao	<u></u>	e	€	<u></u>	7 140,509	106, 481	104, 579	20,966	
	Lanao	€.	e :	€;	€3				29, 691	
	Sulu	e (3	e) ((e)	E (
	Zamboanga		(6)	(a)	(4)	64 567			43,440	
	Mindoro		24, 914	27,421	19,031	04, 567	92, 720	101,550	25, 561	
	Moses	55, (55	28 600	29, 201	58,768	(c)	96,00	(6)	69,410	60°, 00°
	Mountain		133 999	70, 949	73 174	141, 117	110, 552	121,018	191 344	
	Nueva Ecita		1.057,844	392, 533	1.714,252	1, 183, 346		1.076,042	1, 812, 676	
	Nueva Vizcava		36,042	39,116	79, 123	69, 135		69,360	71, 282	
	Occidental Negros		125, 957	197, 713	222, 789	389, 672		375, 783	381, 942	
	Oriental Negros		16, 124	11,010	9,950	41,203		28, 738	32, 227	
	Palawan		207,694	55,921	30,309	52, 690		54,000	54, 493	

^a Estimated.

^b See Ilocos Sur.

c See Mindanao and Sulu. d Subprovince of Agusan until 1914.

e See Moro. f See Capiz.

BUREAU OF INTEROUM TO

UNIVERSITY OF CHROMIO

RELATIONS

Table No. 39.—Abaca (Manila hemp) production by provinces from 1910 to 1917.

[Source: Bureau of Agriculture.]

					Year ending June 30-	g June 30-			
	Province.	1910	1911	1912	1913	1914	1915	1916	1917
	Agusan Mbay Ambos Camarines Antique	Kilo. 1, 553, 610 19, 996, 740 17, 027, 027 132, 192	Kilo. 1, 574, 609 52, 414, 137 21, 787, 222 57, 241	Kilo. 1, 162, 846 48, 127, 933 20, 342, 678 60, 051	Kilo. 375, 716 33, 722, 957 23, 611, 096 80, 427	Kilo. (h) 38, 896, 222 26, 824, 496 48, 030	Kilo. (a) 44, 182, 744 30, 959, 913 156, 151	Kilo. (33, 33) 33, 33, 514 23, 840, 757 220, 101	Kijo. (a) 26, 424, 985 19, 230, 292 216, 778
	Batanes Batangas Batangas Babool Bulacai	124, 223 1, 474, 800	183,045 1,199,916	266, 559 1, 173, 683	262, 926 566, 177	299, 561 315, 538	287, 766 299, 099	267, 512 252, 062	267, 993 386, 695
31 3 32	Gagayan Gagayan Gagagayan Gagagayan Gagagagagagagagagagagagagagagagagagagag	906, 309 747, 615 2, 584, 015	1, 181, 383 1, 734, 758 2, 758, 269	1, 089, 121 1, 882, 110 1, 625, 900	1, 128, 791 1, 634, 054 741, 200	589, 476 1, 225, 661 1, 008, 812	1, 027, 284 1, 338, 902 1, 372, 059	1, 723, 999 2, 056, 067 1, 579, 718	1, 725, 806 2, 189, 057 1, 959, 188
, , , , , , , ,	Ilocos Sur Ilocos Sur Iloilo Babela	458, 815	470, 264	477, 927	235, 572	164, 017	223, 005	235, 361	336, 873
	La Union Leyte Manila, city of	37, 926, 977	25, 682, 663	22, 919, 797	17, 119, 652	16, 438, 827	18, 321, 210	29, 142, 758	35, 536, 190
	Mindanao and Sulu Agusan Agusan Bukidnon Cotabato Davao Lanso Sulu Sulu	(a) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(e)	(b) (c) (c) (c) (d) (d) 143, 579	(a) (b) (c) (c) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	395,751	288, 330	500, 895	747, 632 316 7, 573, 548 98, 289 1, 880, 801 1, 686, 979
	Misamis Moro: Mountain Nuew Edija	7, 055, 664 8, 592, 386	8, 868, 852	7, 693, 455	6, 495, 718	3, 476, 802 (a)	3, 515, 375 (a)	3, 946, 320 (a)	5, 850, 816 (a)
22.28 22.29 22.29	Nueva Vizcaya Occidental Negros Oriental Negros Palawan Panpanga	1,064,371	1, 038, 438 2, 341, 452	874, 565 2, 108, 117 680	692, 272 1, 861, 333 2, 100	1, 610, 661 2, 768	233, 515 2, 401, 251	370, 121	312, 847 2, 692, 098

c See Moro.

^b Subprovince of Agusan until 1914.

34. Kizal 35. Samar			13, 385, 746		8, 108, 458	11, 420, 265	12, 697, 899	17, 418, 456
36. Sorsogon	24, 488, 629	20, 651, 884	20, 177, 765	23, 331, 195	26, 876, 377	25, 545, 769	29, 841, 202	25, 128, 934 F 553 734
of Surigao	9, 316, 101	6, (10, 200	9, 101, 112	7, 021, 030	6, 144, 500	7, 302, 104	470 (44) 77	6,000,102
	9, 559, 290	1, 725, 080	1,909,727	1, 557, 832	1, 318, 375	1, 572, 714	1, 582, 560	1, 534, 476
40. Lambares								
Total	168, 452, 144	171, 879, 598	168, 452, 144 171, 879, 598 159, 473, 876 140, 520, 832 187, 685, 558 154, 192, 492 152, 756, 278	140, 520, 332	137, 635, 558	154, 192, 492	152, 756, 278	160, 953, 355
Don some of in success on decomposition		1 4000 0000	11	(19 202 201)	(+ 100 100 ()	(19 = 01)	(4 400 404 6)	1
A versely of increase of uncrease A versely of increase of uncrease Total value	P26, 952, 343	P27, 500, 736		F32, 319, 676	P29, 968, 009	(12 per cent) P0. 20 P30, 420, 742	(1 per cents) (12 per cents) (2 per cents) (12 per cents) (2 per cents)	P0.40 P63, 598, 136
	1							

^a See Mindanao and Sulu. Note.—Figures in parentheses are decreases.

TABLE No. 40.—Sugar production by provinces from 1910 to 1917.

[Source: Bureau of Agriculture.]

l									
					Year ending June 30—	June 30-			
	Province.	1910	1161	1912	1918	1914	1915	1916	1917
	Abra. Agusan		Kilo. (a) 3,605	Kilo. (a)	Kilo. (a)	Kilo. (a) (b)	Kilo. (*) (b)	Kilo. (*) (b)	Kilo. 18, 330 (b)
සු. ද ැපැල්!		12, 484 194, 873 3, 364, 015 473, 805	151, 353 331, 493 4, 232, 943 396, 957	20,212 5,421,965 361,942	300 6, 527, 605 633, 310	4, 404, 640	4, 581, 682	4, 706, 417 1, 137, 082	29, 286 4, 368, 233 1, 232, 995
∵් ශ්රාට්;		12. 077, 903 122, 768 3, 443, 457	15, 194, 358 303, 537 5, 401, 297	28. 032, 139 480, 295 1, 382, 569	20, 534, 268 295, 487 5, 731, 800	22, 006, 335 208, 959 7, 417, 812	22, 497, 292 568, 173 8, 165, 145	22, 174, 371 763, 851 7, 287, 917	30, 422, 222 1, 007, 300 8, 684, 217
12121 12121 12121	Capiz Cavite Cevite Cevite	425, 609 1, 575, 558 2, 087, 792 2, 621, 170	1, 069, 368 2, 940, 493 4, 836, 981	2, 539, 085 1, 512, 216 8, 103, 620	2, 228, 456 2, 743, 296 6, 027, 951	5, 791, 582 2, 774, 935 9, 912, 686	7,065,826 3,426,089 9,065,856	7, 697, 828 2, 889, 646 12, 339, 318	5, 519, 787 4, 089, 101 11, 218, 228
1911		6, 395, 587 7, 878, 673	8, 430, 339 11, 574, 434	3, 131, 648 21, 451, 096	5, 082, 216 30, 885, 789	5, 693, 866 34, 354, 667	6, 271, 780 35, 155, 894	7, 114, 575	7, 911, 141 29, 960, 823
ន ់ដូ ខ្លួននៃ		1, 510, 410 1, 577, 076 686, 516	1, 894, 274 1, 898, 639 1, 094, 731	2, 077, 303 378, 662 2, 477, 475	2, 094, 709 481, 262 637, 490	4, 461, 851 2, 685, 741 1, 599, 478	9, 170, 487 2, 116, 580 2, 317, 800	9, 785, 700 2, 208, 588 4, 129, 912	10, 091, 500 2, 519, 456 4, 757, 695
ij	. Mindanao and Sulu					63,720	405	702	1.000
	Bukidnon Cotabato Davao Lamao Sulu	ତ୍ରକୃତ୍ର	ତ୍ରକୃତ୍ର	ତ୍ତ୍ତ୍ତ୍					10, 160
4 88828888	ON MEN IN	(4) 11, 195 45, 920 102, 465 143, 831 635, 978 83, 025 81, 556, 860 8 055, 860 8 055, 860	(4) 12,903 47,817 288,167 133,964 1,040,968 118,720 94,413,401 4,370,385	(4) 12,213 11,085 30,200 38,472 1,094,667 105,518,737 8,673,904	53,758 493,340 25,808 1,391,411 112,098,461 8,573,395	1, 154, 444 (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	1, 618, 314 (41, 500 (b) 53, 160 2, 965, 538 150, 300, 918 10, 212, 623	3, 515, 360 (b) (45, 500 (c) 43, 520 3, 018, 614 150, 707, 537 12, 514, 436	4, 350 3, 494, 068 58, 953 (b) 168, 384 3, 019, 713 7, 396 145, 598, 997 7, 278, 406
32		3, 795	3, 795		– '		Ì		

61, 598, 041 2, 980, 900 2, 360, 920 3, 360, 400 8, 130 13, 376, 576 194, 600	362, 338, 084	3 per cent P0.10 P35, 525, 049	• · · · · · · · · · · · · · · · · · · ·
52, 443, 666 1, 475, 091 1, 627, 149 22, 428 9, 710, 852 270, 900 37, 663	350, 281, 946	(2 per cent) • 0.09 • 31, 283, 764	^d See Moro Province.
65 275, 687 4, 282, 923 1, 441, 432 12, 493, 464 115, 493, 464 115, 961	360, 176, 309	5 per cent P0.09 P30,796,521	A A A A A A A A A A A A A A A A A A A
62, 725, 878 2, 414, 265 1, 213, 357 110, 242 13, 016, 303 44, 036	346, 429, 556	19 per cent P0.08 P26,035,568	n until 1914.
58, 810, 286 3, 281, 686 1, 443, 661 33, 207 21, 102, 342 118, 305 56, 835	291, 386, 825	20 per cent P0.08 P23, 310, 946	Subprovince of Agusan until 1914
36, 784, 293 1, 699, 446 428, 722 8, 709 903 15, 569, 097 10, 047 74, 918	242, 334, 659	(1 per cent) P0.10 P24, 233, 466	* Subprovi
63, 572, 765 4, 596, 935 3, 634, 155 308, 470 738, 697 121, 440 5, 129, 891 1, 157, 538 331, 620	243, 924, 574	(60 per cent) P0.10 P24, 392, 457	and Sulu. • Subprovince of Agusan ur
28, 732, 198 2, 235, 129 1, 919, 321 5461, 219 461, 219 7, 324, 983 7, 324, 983 170, 269	152, 639, 327	P0, 10	Mindanao an
33. Pempanen 34. Pangasinan 35. Rizal 36. Samar 37. Sorsogon 38. Surigao 39. Tarlac 40. Tarlac 41. Zambales	Total	Per cent of increase or decrease Average price per kilo Total value	• See Ilocos Sur. b See Department of Mindanao and Sulu. Notr.—Figures in parentheses indicate decreases.

TABLE No. 41.—Copra production by provinces from 1910 to 1917.

[Source: Bureau of Agriculture.]

				Year ending June 30-	June 30-			
Frovince.	1910	1911	1912	1913	1914	1915	1916	1917
	Kilo. (a) 82,068 927,442 4,259,302 260,186	Kilo. (a) 154,892 7,935,697 4,493,525 81,378	Kilo. (a) 128, 945 128, 945 9, 807, 466 7, 319, 307 420, 117	Kilo. (a) 321, 792 8, 400, 546 4, 221, 758 59, 908	Kilo. (a) (b) 9,847,229 4,519,415 99,756	Kilo. (a) (b) (13, 440, 927 12, 397, 706 179, 989	Kilo. (a) (b) 10, 103, 430 8, 364, 890 120, 030	Küo. (b) 15, 587, 139 4, 256, 454 300, 077
	7, 084, 129	54, 699 7, 746, 424	606, 109 8, 115, 412	453, 031 3, 049, 551	3, 785 551, 304 4, 354, 341	6, 328 730, 552 8, 162, 892	4, 567 886, 247 5, 452, 926	3, 807 676, 097 8, 360, 569
11. Cagayan 12. Capiz 13. Cavite 14. Cebu 16. Ilocos Norte 16. Ilocos Sur 17. Jolio	5, 838, 229 33, 294 13, 870, 048 1, 073, 348	7, 139, 616 14, 309 9, 980, 980 1, 450, 943	9, 956, 853 84, 168 10, 900, 667 2, 259, 260	6, 007, 883 146, 225 5, 145, 647 567, 357	4,702,088 115,500 5,118,421 668,924	5, 082, 990 82, 605 8, 659, 254 1, 148, 025	4, 823, 530 106, 775 7, 970, 594 7, 051 789, 020	10, 528, 594 81, 750 7, 970, 594 25, 000 1, 211, 514
	14, 974, 362 68, 370 10, 238, 079	12, 872, 317 92, 291 7, 832, 550	15, 728, 799 487, 885 10, 476, 162	9, 558, 478 143, 670 4, 973, 007	9, 098, 455 190, 072 4, 215, 066	22, 859, 388 95, 411 4, 981, 319	15, 710, 508 110, 234 4, 845, 983	18, 204, 849 152, 071 7, 081, 429
	(4) (4) (6) (6) (6) (6) (7) (8) (8) 1.807.270 11,807.270 14,223,175	(c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(c) (d) (d) (d) (d) (d) (d) 1,921.464 10,746.124 13,194.724	(e) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	14,719,418 189,116 6,009,010 (b)	15, 408, 078	14, 194, 902 - 10, 895, 581 (b)	1, 515, 131 136, 597 142, 671 179, 689 9, 083 23, 859, 438 16, 577, 489 (b) 3, 828
	1, 367, 578 2, 135, 925 293, 153	1, 353, 226 2, 639, 030 204, 936	2, 233, 206 3, 949, 814 1, 338, 384	1, 454, 810 2, 572, 534 1, 325, 071	872, 012 2, 774, 687 676, 065	1, 608, 057 4, 382, 047 840, 295	1, 471, 660 4, 395, 289 932, 329	1, 929, 272 5, 498, 665 637, 445

33, Pampanga 28, Pangasinan 35, Rival	2, 313, 503	3,007,828	3, 905, 690	1, 096, 149	1, 623, 478	2, 372, 377	1, 942, 598	1,713,739
86. Samar 37. Sorsogon 88. Surigao	3, 269, 026 6, 056, 404 1, 727, 821	10, 219, 765 5, 364, 947 1, 603, 456	16, 072, 013 8, 906, 650 1, 181, 135	13, 063, 125 3, 847, 956 3, 379, 467	7, 058, 506 3, 695, 311 2, 815, 697	9, 570, 181 5, 969, 258 4, 033, 092	8, 822, 611 5, 506, 747 2, 242, 354	10, 416, 134 6, 186, 258 2, 597, 828
40. Tarlar 40. Tarlar 41. Zambales	32, 918, 330 70, 082	25, 921, 837 33, 068		25, 416, 236 183, 239	23, 270, 459 94, 821	38, 131, 758 91, 803	31, 341, 323 77, 454	39, 630, 420 91, 815
Total	125, 140, 822	125, 140, 822 118, 323, 114	174, 035, 835	174, 035, 835 116, 699, 818 107, 382, 931	107, 382, 931	171, 573, 963	171, 573, 963 141, 764, 193	186, 510, 962
Per cent of increase or decrease Average price per kilo Total value	P0.15	(5 per cent) P0.15 P17,748,467	47 per cent P0.17 P29, 586, 092	47 per cent (33 per cent) (8 per cent) (8 per cent) (9 per cent) (17 p. 18 p. 18 p. 18 p. 18 p. 17, 385, 088	(8 per cent) P0.16 P17, 385, 088		59 per cent (17 per cent) P0. 11 P18, 377, 184 P19, 016, 096	31 per cent P0.14 P26, 553, 153

* See Ilocos Sur. b See Mindanao and Sulu. Note.—Figures in parentheses indicate decreases.

e Subprovince of Agusan until 1914.

d See Moro.

TABLE No. 42.—Coconut oil production from 1910 to 1917.

[Source: Bureau of Agriculture.]

				Year ending June 30-	June 30-			
Province.								
	1910	1911	1912	1913	1914	1916	1916	1917
l. Abra	Liter.	Liter.	Liter.	Liter.	Liter.	Liter.	Liter.	Liter. 815
			367	150	@	e	ē	e
	1, 573, 841	133, 265	189,882	528, 725	645, 133	590, 912	557,685	464, 743
	120, 319	172, 185	114,380	160, 516	205, 178	274, 975	210,843	67, 910
5. Antique	18,884	9, 195	9,803	1, 983	1, 363	2, 478	8,093	2, 626
			100	900		- 12	1	000
			986	808	2, 484	Z, 415	2,810	T, 100
	066 676	995 650	V68.14	72 739	66 201	00 719	101	73 467
	077 7760	000,000	1,00,10	701 (0)	120,00	32, 114	*OT *TC	10, 401
			778	1 450	- 061	45 908	101	1 196
	000 07	300 006	171 004	10,079	200 00	96,500	777	117
	49,000	230, 515	111,004	43,010	24, 505	870,0%	144, 554	111 '90
	100 110	000	000 200	000		100		000
	954, 025	986, 706	95,623	118,628	106,704	216,285	251,309	250, 300
	21, 782		2,266	2, 177	635	930		
16. Ilocos Sur	1,838		820	1,257	152	2,892	2,441	2, 533
	43,368	36, 950	31, 541	24, 365	23,286	25, 743	22, 758	29, 299
				150	1,036	1,776	975	833
_	2, 169, 580	4, 230, 492	3, 305, 165	2, 550, 317	1,859,824	1, 121, 930	802, 532	1,050,266
	15, 194	7, 924	4,436	11, 126	8,849	9,692	17,900	17,818
_	138, 951	216,073	229, 547	606, 562	256, 071	318, 285	261, 188	135, 350
				-	-	-		
					2,827	11,247	13, 354	
Agusan					-	-		I73
Bukidnon	(e)	ઈ;	Đ;	<u>-</u>	-	-		
Cotabato	(g)	(B)	€	(g)	-	-		330
Davao	(g)	(B)	Ð:	(F)		-		2,800
Lanao	(g)	(g)	(Đ	()				26, 700
Sulu	(a)	Ð	(g	€		-		
Zamboanga	(p)	€	Đ	(-		1, 121
Min	17.141	1, 185	1,999	1.108	250	635	382	474
	71,880	3, 270	5, 166	26, 335	13, 938	14.799	12,851	17, 753
	350, 108	1, 138	105,600	6, 268	<u>e</u>	e e	e	e e
27. Mountain			386	426	1, 463	639	457	1, 542
			2	91		-		342
	208			288	1,530	1,904	491	332
_	67,814	31,877	44, 295	30,342	6, 234	2, 982	1,640	6,873
	12, 923	5, 274		3,384	2,216	6, 462	2, 195	2,872
			1.103	17, 321	1,884	1.916	1.675	2,720

83. Pampanga 84. Pangasinan 85. Panal	235, 556	199, 803	85, 308	75,217	110, 352	153, 646	120, 557	122, 285
36. Samar 37. Sorsogon 38. Surigao 39. Torios	62, 866 69, 915 30, 049	130, 854 68, 252 3, 970	125, 263 59, 605 1, 114	79, 601 14, 149 11, 202	7,027 20,101 50,690	19, 278 34, 716 5, 904	10, 161 29, 134 3, 330	9, 526 14, 702 2, 108
40. Tayabas 41. Zambales	625, 229	32, 819		609, 610 3, 481	110, 317 3, 418	110, 196 1, 200	116,243	240,819 4,586
Total	6, 993, 513	6, 602, 966	4, 868, 101	5, 010, 540	3, 595, 332	3, 175, 626	2, 688, 305	2, 623, 687
Per cent of increase or decrease Average price per liter Total value.	P0.30 P2,098,054	(6 per cent) P0.30 P1,980,890	(26 per cent) (3 P0.30 P1, 460, 430	(3 per cent) P0.30 P1,503,162	(28 per cent) (1 P0.34 P1, 225, 413	(14 per cent) P0.21 P662, 491	(15 per cent) P0.27 P713, 288	(2 per cent) • 0.31 • 831, 810

b See Mindanao and Sulu. a See Ilocos Sur.

c Subprovince of Agusan until 1914. Note.-Oil produced from copra not included. Figures in parentheses indicate decreases.

d See Moro.

EUREAU OF INTERNATIONAL RELATIONS

TABLE No. 43.—Tobacco production from 1910 to 1917.

[Source: Bureau of Agriculture.]

				Year ending	June 30—			
Province.	1910	11811	1912	1918	1914	1915	1916	1917
1. Abra	Kilo.	Kilo.	Kilo.	Kilo. (*)	Kilo.	Kilo.	Kilo. (a)	Kilo. 240, 588 (b)
2. Agusan 3. Albay			150	2,1	898			1,200
	27,830	19, 964	7,654	32,800	36,302	46,819	38, 254	32,980
			9,558	6,935	4,853	13,602	15,602	11, 914
8. Batangas 9. Bohol	32, 240 21, 252		47, 113	103, 351	50,037	105, 238	87,399	105, 204
	49,358	110, 722	19, 902	9, 231, 881	6,354,300	5, 027, 548	6,830,561	6, 565, 162
-	323, 978 2, 760		32, 644 1, 950	37, 695	7,732	12, 270	6,500	9, 202
_	4, 734, 918		2, 038, 246	4, 497, 302	3, 813, 972	3, 381, 032	3,816,403	3, 680, 099
	237, 774		566,	650, 647	855, 328	730, 723	516, 442	314, 708
17. Iloilo	628, 452		334, 707	1, 503, 476	1, 129, 295	952, 796	464, 186	18, 905, 923
	000 000 1		000	9 619 474	8 507 578		1,200	8, 544, 993
20. La Union 21. Levte	4, 368, 022 346, 978	2,886,992	499, 313	482, 985	1,096,964	1, 199, 306	603,	850, 246
22. Manila, City of 23. Mindanao and Sulu					44, 546	40,301	63, 990	11 060
Agusan Bukidnon	(6)	(e)	(a)	(e)				300
Cotabato Davao	€€	€€:	€€	DE:				13,650
Lanao Sulu	Ð	E E	∑ €:	£				56 650
Mind	(4) 44, 022		(a) 32, 705 5, 040		48,706	41, 972	41, 544	37, 802 73, 400
2b. Misamis	4,646		26,932		(b) 92.769	(b) 151,417		(°) 199, 306
27. Mountain 28. Nueva Ecija			124, 293		574, 651	278, 408		496, 734 159, 283
29. Nueva vizdya 29. Occidenti Rayos 31. Occidental Negros 22. Palawar	838, 626 362, 480 1, 380	627, 486 272, 872 1, 242	239, 813	820, 236 832, 413 15, 144	984, 858 879, 524 7, 050	606, 598 1, 008, 011 19, 120	866, 740 1, 287, 011 19, 700	887, 982 506, 192 3, 750

21, 650 4, 411 698 7, 579 165, 975 97, 643 101, 136 156, 221 167, 802	84	19 per cent P0.22 P10,883,523
3, 111, 040 111, 301 4, 910 117, 201 28, 101 37, 458 133, 289 81, 080	41, 139, 174	7 per cent P0.18 P7,259,169
17, 280 3, 293, 310 127, 160 1127, 160 131, 530 63, 062 135, 790 41, 691	38, 302, 964	(18 per cent) P0. 15 P5, 684, 579
5, 152 2, 208 2, 208 230, 641 110, 955 45, 845 59, 282 32, 926 5, 587	46, 731, 463	14 per cent P0.15 P7,109,367
184 7, 272, 189 235, 911 142, 696 72, 854 70, 062 65, 706 7 994	46, 060, 390	56 per cent P0.27 P12, 436, 305
3, 089, 076 225, 069 36, 300 36, 300 36, 300 23, 468 133, 534 133, 534 10, 572	29, 583, 169	16 per cent P0.27 P7,987,456
2, 098, 106 3, 634 99, 958 35, 420 37, 444 87, 444 65, 872 165, 872 163, 958	25, 518, 132	(9 per cent) P0.27 P6,889,896
2, 107, 036 2, 107, 030 58, 420 15, 272 24, 380 2, 484	28, 006, 778	P0.27
33. Pempannea 34. pengasinan 7 pizal 36. Samar 37. Sorsogon 38. Turigao 39. Tarlac 40. Tayabas 40. Tambales	Total	Per cent of increase or decrease Average price per kilo. Total value

^a See Ilocos Sur.

^b See Mindanao and Sulu.

Note.—Figures in parentheses indicate decreases.

^c Subprovince of Agusan until 1914.

d See Moro.

Table No. 44.—Monthly average prices of important crops in the Manila market, 1918.

[Source: Bureau of Agriculture.]

ĮS	ource:	Bureau	of Agri	culture.]	·			
Article.	Jan- uary.	Feb- ruary.	March.	April.	Мау.	June.	July.	Aug- ust.
Abaca:								
For Japanese trade—	Kilo.	Kilo.	Kilo.	Kilo.	Kilo.	Kilo.	Kilo.	Kilo.
Tagal 1, fiber AA	₱1.541	P1.541	P1.502	P1.541	P1. 541	P1. 541	₱1.541	P1.541
Tagal 2, fiber BB	1.383	1.351	1.344	1.383	1.383	1.383	1.383	1.383
Tagal 3, fiber CC	1.264	1.235	1.225	1.264	1. 264	1.264	1.264	1.264
Tagal 4, noer DD	1. 106	1.075	1.066	1.107	1.107	1.107	1. 107	1.107
For general trade—	004	005	055	070	070	005	000	
Extra prime, fiber A Prime, fiber B Superior current, fiber C	. 964	.965	.955	.972	.972	. 905 . 882	. 822 . 806	.81
Superior surrent fiber C	. 933	.929	.935	.913	.913	.86	.791	.785 .761
Good current fiber D	.91	.901	.886	.889	.889	.84	.769	.741
Good current, fiber D Midway, fiber E Streaky No 1, fiber S1	.873	.854	.853	.85	.85	.803	.753	.708
Streaky No 1, fiber S1	.788	.795	.801	.81	.81	.773	.743	.676
Streaky No 1, fiber S1 Streaky No 2, fiber S2 Streaky No 3, fiber S3 Current, fiber F Seconds, fiber G Brown, fiber H Good fair, strips I	.746	.731	.737	. 743	.743	706	. 696	. 619
Streaky No 3, fiber S3	.686	.664	.649	. 652	. 652	.617	. 609	. 548
Current, fiber F	. 855	.838	.815	.81	. 81	.767	.743	. 676
Seconds, fiber G	. 595	.605	.628	. 636	. 636	. 615	.617	. 54
Brown, fiber H	. 56	. 553	.567	. 597	. 597	. 573	.569	. 498
Good fair, strips I	.792	.743	. 733	.739	.739	.702	.68	.611
Fair, strips J Medium, strips K	.613	. 632	. 629	.621	.621	.603	.601	. 538
Medium, strips K	. 521	.553	. 53	. 459	. 459	. 459	. 459	. 447
Coarge string L	49	.522	.498	. 427	. 427	. 427	. 427	. 427
Coarse brown, strips M	.399	. 443	.409	.308	.308	.308	. 308	. 308
Daet coarse, strips DL Daet coarse, brown, strips	.316	.316	. 285	. 194	. 194	. 194	. 194	. 198
Daet coarse, brown, strips			l					
DM	. 237	. 237	.211	. 134	. 134	. 134	. 134	. 134
Maguey or Sisal:	i	1	ĺ		1			
Cebu-	000	-		400	400	400		
Maguey No. 1	. 332	.34	.374	. 403	.403	.403	. 315	. 293
Maguey No. 2	. 324	. 322	.328	.364	.345	.34	. 25	. 232
Maguey No. 3	. 313	. 277	.273	.285	.285	.285	. 208	. 182
Manila—			907	.387	. 387	.387	907	001
Maguey No. 1			.387	.324	.324	.324	.387	. 281
Maguey No. 3			.269	.269	.269	.269	. 269	.248
Sugar:			. 209	.209	.209	.209	.209	. 202
		1				1		
Sugar No. 1 Sugar No. 2 Sugar No. 3 Sugar No. 3 Sugar No. 4 Sugar No. 5	.096	.099	.095	. 095	. 092	. 091	.091	. 092
Sugar No. 2	.088	.091	.086	.087	.085	.083	.083	.085
Sugar No. 3	.077	.079	.082	. 083	.079	.075	.075	.075
Sugar No. 4	.071	.072	.078	.079	.075	.071	.071	.072
Sugar No. 5	.067	.068	.074	.075	.071	.067	.067	.067
Manilaa-		l		1	}	į.	1	
Sugar No. 1 Sugar No. 2 Sugar No. 3 Sugar No. 4 Sugar No. 4				1				. 099
Sugar No. 2								. 095
Sugar No. 3								. 091
Sugar No. 4								. 085
Sugar No. 5 96° centrifugal sugar of (New								
96° centrifugal sugar of (New		1						_
York)	. 264	. 264	. 264	. 264	. 264	.264	. 264	, 266
Copra:								100
Sun dried (Cebu)	. 164	.178	. 193	. 193	. 202	.171	. 166	. 189
Fair merchantable Manila		. 17	. 193	. 206	.20	.178	.178	. 188
Laguna	.151	. 162	. 181	. 194	.188	. 166	. 166	.178
Rice:	140	155	101	150	109	104	100	100
Saigon, second white	. 146	. 155	. 161	. 159	. 163	. 164	.168	. 177
Native, second white, milled Native, medium red grain, milled	. 14	. 154	. 159	. 158	. 155	. 158	. 17	.110
Native, medium red grain,	. 135	. 15	. 155	. 155	. 152	. 153	.158	. 169
milled	. 100	. 10	.148	. 148	.147	.149	.153	. 163
Native, red grain Native, hand cleaned Pangasinan, hand cleaned		.145	.149	.148	147	.147	. 147	. 103
Pengesinen hand elenned	. 129	.143	.143	.149	. 141	. 141	. 141	. 131
Maiz (corn)	. 102	.11	. 136	.116	. 129	.111	. 117	.11
Tobacco:	.102		1 . 100					• • • •
Icahola first	1.795	1.795	1. 795	1.795	1.795	1.795	1,795	1.795
Isabela second	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
Isabela second Isabela third	. 91	. 91	. 91	. 91	.91	.91	. 91	. 91
Isabela fourth	. 61	. 61	. 61	.61	.61	.61	.61	.61
Isabela fourthIsabela fifth	.40	.40	. 40	. 40	.40	.40	.40	.40
Cagayan first	. 93	. 93	. 93	. 93	. 93	. 93	. 93	. 93
Cagayan firstCagayan second	.77	.77	.77	.77	.77	.77	.77	.77
Cagayan third	.57	. 57	.57	.57	.57	.57	.57	. 57
Cagayan third	. 44	.44	.44	. 44	.44	.44	.44	. 44
Cacavan niin		. 33	. 33	. 33	. 33	. 33	.33	33
Pangasinan, first to third	. 283	. 283	. 283	. 283	. 283	. 283	. 283	283
Pangasinan, first to third Union, first to third	. 435	. 435	. 435	. 435	. 435	. 435	•435	. 435
Union, fourth to sixth	. 332	.332	.332	.332	. 332	.332	. 332	332
Cebu, first to third	. 239	. 239	. 239	. 239	.239	.239	. 239	. 239
Ilocos Norte, first to third	.217	.217	.217	.217	.217	.217	.217	.217
	·					·		

^{*} Manila quotations are 50 centavos less than Iloilo.

Simplify to prompting

Note. () indicates no stock in the market. The above averages are based on prices prevailing every Thursday of the mouth a contract of the mouth and the stock in the market.

TABLE No. 45.—Livestock in the Philippines.

[Source: Bureau of Agriculture.]

Year.	Carabao.	Cattle.	Horse.	Hog.	Goat.	Sheep.
1910	756, 724	269, 963	142, 604	1, 681, 550	441, 455	94, 166
1911	863, 649	315, 495	151, 696	1, 703, 079	455, 291	93, 341
1912	956, 512	362, 230	170, 861	1, 888, 122	475, 794	98, 656
1913	1, 047, 164	418, 114	179, 089	2, 086, 736	528, 180	104, 147
1914	1, 147, 433	477, 736	215, 826	2, 285, 880	592, 042	118, 010
1915	1, 221, 866	534, 106	223, 195	2, 521, 143	644, 026	129, 470
1916	1, 228, 836	566, 199	203, 131	2, 734, 684	604, 332	130, 034
1917	1, 203, 760	557, 220	197, 663	(a)	(a)	(a)

a No data available.

Table No. 46.—Livestock in the Philippines for the year ending December 31, 1917.

[Source: Bureau of Agriculture.]

Province.	Carabao.	Cattle.	Horse and mule.
Abra	24, 593	11, 598	6, 958
Albay	18, 392	3,384	3, 133
Ambos Camarines	23,058	3,466	407
Antique	22,544	18,668	556
Bataan	9,409	770	395
Batanes	4	12,906	739
Batangas	16, 842	92,474	29, 853
Bohol	45, 442	20, 942	4, 227
Bulacan	43, 598	2,536	4, 466
Cagayan	58, 408	3,904	5, 850
Capiz	32, 894	6, 187	564
Cavite	15, 954	9,641	9, 981
Cebu	47, 024	24, 720	13, 265
Ilocos Norte	58, 445	16,043	11, 611
Ilocos Sur	45,686	22, 736	4, 641
Iloilo	59, 142	36, 706	1,511
Isabela	33,603	3, 737	5, 469
Laguna	21, 658	7, 164	8, 906
La Union	34, 922	7,274	2,529
Leyte	40, 638	19, 215	4,481
Mindanao and Sulu:	20,000	10, 210	2, 202
Agusan	1, 917	498	248
Bukidnon	442	52	727
Cotobato	413	218	24
Davao	5,390	14, 796	1, 174
Lanao	345	728	141
Sulu	351	1, 168	78
Zamboanga	9, 187	3,086	1,359
Mindoro	14, 864	28, 654	3, 337
Misamis	15, 525	3, 970	3, 854
Mountain	29, 124	26, 563	5, 068
Nueva Ecija	54, 863	5, 442	2, 090
Nueva Vizcaya	10,606	3,513	891
Occidental Negros	43, 597	17, 386	2,003
Oriental Negros	19, 488	12, 381	8, 485
Palawan	6, 432	15, 845	231
Pampanga	39, 931	1,488	8, 972
Pangasinan	112, 255	15, 676	8, 316
Rizal	19,057	2,900	4, 004
Romblon	9, 373	13, 147	2, 130
Samar	15,639	4,553	1,490
Sorsogon	19, 273	18, 271	3, 859
Surigao	20, 452	980	4, 720
Tarlac	31,083	1, 479	1, 161
Tayabas	44,866	31, 621	15, 474
Zambales	27,031	8,734	3, 285
Total for Philippine Islands	1, 203, 760	557, 220	197, 663

The raising of livestock is an exceptionally profitable industry in the Philippines. There is a great demand for work animals to supply the rapidly growing agricultural and other activities of development. A recent shipment of cattle from Madras, India, cost P260 per nead placed at Pandacan, Manila. Meat and leather products form an important part of the Islands' imports. On the other hand, the vast areas of grassy land which cover about 17 per cent of the area of the Philippine Islands will feed enough animals not only to supply the country's needs but also for exportation to other countries.

Return to

Table No. 47.—Utilization of forest products from private and public forests.

[Source: Bureaus of (1) Forestry and (2) Internal Revenue.]

		Timber. ¹		For	est charg	es.2
Fiscal year.	First group. b	Lower group. c	Total.	First group.	Lower group.	Total. d
1908	Cu. m. 25, 586 35, 357 31, 962 89, 312 52, 091 59, 422 23, 761 55, 798 52, 512 55, 060 51, 481	Cu. m. 78, 692 108, 404 121, 656 145, 316 172, 856 217, 749 77, 752 241, 297 226, 483 288, 958 318, 700	Cu. m. 104, 278 143, 761 153, 618 184, 628 224, 947 277, 171 101, 503 297, 095 278, 995 344, 018 270, 131	P55, 111 70, 272 76, 165 96, 890 121, 306 124, 614 122, 317 143, 537 128, 309 134, 771 132, 760	P74, 492 91, 030 99, 818 129, 405 145, 000 171, 927 157, 845 193, 861 183, 935 239, 226 250, 323	P129, 603 161, 302 175, 983 226, 296 266, 306 296, 544 279, 662 337, 398 312, 244 373, 398

c Lower groups:

July 1 to December 31, 1913.
 First group: Acle, Baticulin, Betis, Camagon, Ebony, Ipil, Lanete, Mancono, Molave, Narra, Tindalo, and Yacal.

Clower groups:
 Second group: Alupag, Aranga, Banaba, Bansalaguin, Banuyo, Batitinan, Bolongeta, Calamansanay, Calantas, Dungon, Guijo, Macaasin, Malacadios, Mangachapuy, Palo Maria, Supa, Teak, and Tucan-calao.
 Third group: Agoho, Amuguis, Anubing, Apitong, Batino, Bitanghol, Catmon, Calumpit, Dalinsi, Dita, Dungon-late, Malacmalac, Malapapaya, Malasantol, Mayapis, Nato, Palosapis, Panao, Sacat, Santol, Tamayuan, and Tanguile.
 Fourth group: Includes all species not included in any of the other groups.
 d Only timber cut from public forests pay forest charges.

Table No. 48.—Utilization of forest products from public and private forests.

[Source: Annual Reports of the Director of Forestry.]

						M	Minor forest product	product.						
Fiscal year.	Char- coal.	Dyewood.	Tan bark.	Dye- bark.	Wood- oil.	Gumastic.	Gutta percha.	Fire- wood.	Rattan.	Diliman.	Stone.	Lime- stone.	Pitch.	Gogo.
1908 1909 1910 1912 1912 1913 1914 1914	CM C	Kilo. 2, 284.867 1, 325, 065 1, 154, 614 1, 725, 746 1, 083, 139 1, 651, 852 487, 471 2, 381	Kilo. 1, 680, 306 1, 423, 370 3, 302, 339 2, 012, 385 1, 682, 254 879, 785 549, 894 1, 978, 595 1, 978, 595 1, 545, 993	Kilo. 1136, 986 1115, 040 98, 482 87, 229 1193, 878 81, 881 89, 454 65, 672 96, 672	Liter. 27, 154 314, 932 131, 377 77, 540 86, 080 49, 875 46, 929 117, 561 117, 561 147, 574	Kilo. 946, 874 998, 784 1, 092, 398 707, 732 910, 790 883, 455 1, 199, 404 1, 478, 787	Küb 89, 187, 187, 187, 187, 187, 187, 187, 187	<i>cm</i> . 192, 526 221, 635 246, 776 239, 237 h 150, 800 h 129, 800 h 56, 322 1222, 121 376, 764	Kilo. (c) 3, 639, 389 3, 669, 212 4, 593, 655 3, 661, 490 5, 065, 840 5, 112, 182 b 3, 348, 148 b 3, 348, 148	Kilo. (d) 10, 152 2, 578 43, 611 114, 053 96, 128 61, 582 61, 682 61,	Kilo. (e) (g) (g) 26, 348 127, 176 104, 721 59, 432	(f) (f) (e, 600 (f)	Kilo. 139, 391 46, 297 57, 629 125, 366 153, 474 203, 580 86, 040 56, 241	Kilo.
1917		26	3, 243, 251	88, 963	54,080	795, 911	26, 283		b 4, 607, 674	91,305	55,067	387, 373	109,386	202, 846

a July 1 to December 31, 1913; b excluding unsplit rattan; c unsplit rattan, 67,299,082 pieces; d 1,595,849 pieces; e 6,420 pieces; f limestone, 6,646 ollas; g 7,048 pieces; b excluding first-class firewood; 1912, 11,292,519 pieces; 1913, 11,044 pieces; 1913, a 5,087 pieces; l excluding 6,483,064 rajas.
Considerable activity is being given to the utilization of the forest products of the Islands, but considering the magnitude of the resources, this activity is still insignificant. In the Philippines, forests are found in abundance such beautiful and hard timber as narra, ipil, molave, camagon, ebony and yacal, all of which are of high commercial value as they are valuable materials for permanent structures and the manufacture of furniture.

Table No. 49.—Domestic corporations incorporated from March 30, 1906 to June 30, 1918.

Class.	Num- ber.	Capital subscribed.	Capital stock.
I. NATURAL RESOURCES	379	P 35, 449, 008.00	P67, 969, 046.00
1. Mining	109	21, 714, 279, 00	39, 019, 900, 00
2. Agriculture	228	11, 178, 279, 00	21, 290, 146, 00
3. Lumbering	31	2, 199, 330, 00	6, 959, 000, 00
4. Fishing	10	277, 120, 00	620, 000 . 00
5. Others	ı	80, 000, 00	80, 000, 00
II. COMMERCE	324	87, 156, 032.00	72, 448, 050.00
1. Wholesale and retail		10, 798, 880, 00	26, 655, 530, 00
2. Transportation		9, 744, 496, 00	19, 272, 020, 00
8. Banking and insurance		9, 400, 000. 00	11, 250, 000.00
o. Danking and insurance		5, 380, 475.00	9, 125, 000, 00
4. Import and export		596, 400.00	2, 330, 000, 00
5. Drug store		413, 650, 00	1, 690, 000, 00
6. Warehouse		169, 100, 00	406, 000, 00
7. Commission and brokerage	1 22	653, 031, 00	1, 714, 500.00
8. Others	205	20, 055, 032.05	49, 502, 577.80
III. Industry		4, 368, 255, 00	6, 687, 500, 00
1. Construction and repair			
2. Distilleries and breweries	22	1, 173, 250. 00	8, 257, 500, 00
3. Electric light and power	14	2, 625, 290. 00	6,687,500.00
4. Vegetable oil 5. Cigars and cigarettes	17	1, 578, 300, 00	5, 104, 500.00
5. Cigars and cigarettes	10	808, 832. 75	1, 992, 000.00
6. Printing and publishing	82	479, 661.00	1, 352, 210.00
7. Shoes and other leather goods	3	451, 606. 00	902, 000.00
8. Ice and cold storage9. Rice mills	10	379, 010. 00	611, 000.00
9. Rice mills	8	254, 767. 00	375, 867.00
10. Others IV. MISCELLANEOUS	61	7,936,060.00	13, 542, 000.00
IV. MISCELLANEOUS	478	2, 938, 032.44	17, 246, 494.44
1. Recreation	49	775, 214. 00	2, 083, 200.00
2. Hotels and restaurants	. 10	527, 045, 00	1, 262, 60 0, 00
3. Educational and religious	259	232, 965, 00	487, 000. 00
4. Clubs and societies	134	8,980.44	38, 194. 44
5. Others		1, 398, 828. 00	13, 375, 500. 00
Total S.	1, 386	95, 603, 104.00	207, 161, 167.74

NOTE.—Twelve corporations reported to have been dissolved are not included.

corporation.
of inco
and year
business c
*
nature o
t_0
according
p_{ε}
classife
corporations
omestic
7
. 50.
40
TABLE I

•	Natu	Natural resources.	Ö	Commerce.		Industry.	Mi	Miscellaneous.		Total.	
Year	No.	Capital stock.	No.	Capital stock.	No.	Capital stock.	No.	Capital stock.	No.	Capital stock.	
1906 a	13	P4. 360. 000. 00	70	P890, 000, 00	9	P217, 500, 00	00	P550, 000. 00	32	017,	
1907	22		20 02	256, 000. 00	∞ <u>c</u>	340, 500.00	33	316, 944, 44	65 4	2,347,544.00 4,302,500.00	
0001	200	<u> </u>	12	3, 309, 000.00	-	Š	202	465,000.00	74	485	
1910	34	88	818	4, 181, 000, 00	22 14	280	3 %	10,419,300.00	25	608 808 808	
1912	383	38	35	5, 377, 500, 00	22	8	68	1,078,000.00	100	88	
1913	34	185,000	37	4, 712, 500.00	23	9	40	733, 500, 00	134	<u>\$</u>	
1914	27.5	8	77.	2, 137, 020. 00	13	9	37	148,600.00	104	9.54 4.64	
1916	3 22	\$ 6 8 6 8 6	2, 25	6, 931, 100, 00	25	30.5	42	62,000.00	108	£8,	
1917	8 4	653, 200	4.5	9, 463, 500.00	125	200	97	102, 400.00	230	953,	
Tato	370	8 5	39.4	79 443 050 00	20K	21 22	478	494 44	1.386	161.	
A USAL	3	00.000,000	1	20,000,000	3	20,000	?				
a First corporation was registered March 30, 1906.	ed Mar	ch 30, 1906.			b Fr	b From January 1 to June 30 only	to Ju	ne 30 only.			73

The increasing investments of capital in the Islands is shown by the fac t that in 1917, 230 corporations were organized with a total capital stock of P21,953,600. In 1918, 155 corporations with a capital stock of P26,095,308 were in corporated up to June 30.

SUREAL OF INTERNATIONAL RELATIONS

Table No. 51.—Domestic corporations registered from March 30, 1906 to June 30, 1918.

	Total.	
	Others.	91 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Religious.	
Miscellaneous	Hotels and res- taurants.	
cella	Recrestion.	1 1 2 0 m 1 1 1 2 m
Mis	Education.	2014 4 70141811000 2001620 91 111 9866
	Clubs, societies, and chambers.	1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Others.	2 1 1 8 2 1 1 8 1
	Vegetable oil.	91
	Shoes and other leather goods.	e
	Rice milla.	
ries.	Eletric and power plants.	
Industries	Ice and cold atorage.	
E	Distilleries.	
	Construction and repair.	1 4 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Cigara and cig- arettes.	00
	Printing and publishing.	14 20
	Others.	-
	Drugs.	0 0 0
	Warehouse.	100
Commerce.	Commission and brokerage.	6.1
mm	Transportation.	121 12 11 12 14 4 4 4 4 4 4 1 1 1 1 1 1
ວັ	Bank and in- surance.	
	Import and export.	
	Wholesale and retail.	2 2 1111110000 000000 1140 1 000
	Others.	
urce	·2aninar.	
reso	Lumbering.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Natural resources	Mining.	φ 1 13831
Nat	Agriculture.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Provinces. (Headquarters.)	Abra. Albay Albay Albay Anthoge Batana Batangas Batangas Batangas Batangas Bohol Cagayan Cagiz Cavite Cebu Cavite Clook Sur Illocos Sur Illocos Sur Illocos Sur Illocos Sur Illocos Sur Illosos Sur Il
l		1.9%4000,00001121814130158002128844888288888888888888888888888888

Street Continue	^ယ ကလေးမာက်သိ	1,386
1 1		92
1 1		22
1 1		2
1 1		
1 1	1 7 10	
1 1	112	134
1 1		19
1 1		11
1 1		က
1 1		∞
1 1	က	•
1 1		
1 1	-	23
1 1		
1 1		
1 1 1 1 8 1 1 1 228 109 31 10 1 143 31 13 85 10		83
1 1 1 1 8 1 1 1 228 109 31 10 1 143 31 13 85 10	- -	ឌ
1 1 1 1 8 1 1 1 228 109 31 10 1 143 31 13 85 10		ន
1 1 1 1 8 1 1 1 228 109 31 10 1		6
1		2
1		28
1		13
8		
8	444 H4	
8		-
8		12
Remblon 1 1 1 1 1 1 1 1 1		31
Remblon 1	1	109
Remblon Sanar Sanar Sorsogo Tarlac Tayabas Tambales	- ∞	228
:: F 40 t0 h- ~	S. Remilion Sanar Sorsogo Surigao Tarlac Tarbas Zambales	

TABLE No. 52.—Foreign corporations registered and doing business under the laws of the Philippine Islands.

Nationality.	Natural resources.	Commerce.	Industry.	Miscellaneous.	Total.	Total in Philip- pine currency.
Great Britain (pounds) Canada (dollare) Australia (pounds) Hongkong (dollare) British India (trupee) British India (trupee) British Settlements (dollars) Others (pees) United States Germany? (marks) Japan (yens) Netherlands (guilder) France irfancs) Spain (resetas) Spain (resetas) Austra (fornes) Italy (ingel	1, 000.00 400,000.00 120,000.00 17,000.00 10, 575,000.00 10, 675,000.00 10, 600.00 10, 6	92, 673, 667. 0 29, 648, 226. 10 34, 235, 000. 0 2, 300, 000. 0 3, 400, 000. 0 3, 400, 000. 0 376, 280, 000. 0 376, 280, 000. 0 376, 280, 000. 0 377, 280, 000. 0 377, 280, 000. 0 377, 280, 000. 0 378, 280, 000. 0	46, 000, 000 .00 150, 000 .00 775, 000 .00 0.00 0.00 2, 400, 000 .00 290, 000 .00 5, 500, 000 .00 6, 00	48, 723. 11	137, 680, 567, 00 29, 834, 226, 54 770, 000, 00 2, 380, 000, 00 2, 380, 000, 00 2, 380, 000, 00 2, 380, 000, 00 376, 280, 000, 00 376, 280, 000, 00 102, 440, 000, 00 102, 440, 000, 00 103, 440, 000, 00 103, 733, 733, 733, 733, 733, 733, 733, 7	1,340,044,968,00 13,685,453,00 70,281,000,00 11,492,240,00 13,587,661,00 117,912,00 117,90,000,00 118,090,000,00 118,500,000,00 128,500,000,00 128,500,000,00 128,500,000,00 128,500,000,00 128,500,000,00 138,500,000,00 14,000,000,00 15,500,000,00 16,500,000,00 16,500,000,00 17,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00 18,500,000,00

Nore.-The amounts shown are the authorized capital in their home countries.

∞
91
Į
o,
30
•
ó
ξ
್ಷ
ے
_
to
0
0
e
I
ú
-
52
ຊ
Z
i
S
2
. 2
2
rom
Ģ
£
\boldsymbol{z}
0
5
ţ
Ś
egistere
23
ž
`
S
ø
:2
3
3
Ö
и
ţ
23
2
÷
1
١.
53.
53
o.
ž
~
G
ABLE
m
4

1900 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Capital. P5, 530, 000.00 P65, 530, 000.00 7, 625, 800.00 4, 775, 809.84 1, 453, 000.00 33, 090, 000.00	Number.	Canital				AND PART PARTY AND PROPERTY AND PERSONS ASSESSED.		The state of the s
1	645, 645, 620, 775, 453, 090,	44	Capitai.	Number.	Capital.	Number.	Capital.	Number.	Capital.
1	645, 620, 453, 090,	3	BC 01E 490 CO	2	050	•	Š	E	002 002
1	620, 453, 090,	-	6 200 600 00	425	120	4-	78, 097, 500, 00	17.	36, 300
	453, 090,	æ	15,000,000,00	91	200	- c	33, 700, 00	82	121,877
	453, 090,	3 5	4. 627, 916, 87	19	619, 908, 19	76	17,526,00	8 52	10, 041, 160, 90
	96	88	22, 547, 733, 07	6	500	000	2.033.000.00	46	70, 233
1906	0.00	32	5, 579, 871, 13	20	300	07	2,010.00	61	152, 181
1007		27	6, 464, 636, 49	∞	251.	2	88,000,00	37	49,887
1907	0.00	53	2, 920, 301, 26	4	500	-	2,000.00	33	8
1908	0.00	21	4, 022, 487.07	8	500	-	340,000.00	24	387
1909	0.00	11	5, 081, 197, 59	က	790		00.00	74	387
1910	241,000.00	20	506, 285. 34	00	886	23		83	832, 171,
	0.0	15	876, 499, 40	90	383	-	20,000.00	23	500,883
	154, 400.00	90	2, 237, 716. 68	2	495.			4	836, 612,
1913	410, 931. 30	211	7, 576, 945, 20	22	500	8	10, 235.00	252	Ħ,
	56, 294. 00	158	7, 969, 861. 17	10	097	22	16,800.00	181	659, 052.
	263, 000.00	165	11, 899, 261. 17	24	86	-	2, 000.00	193	767, 169.
	81,000.00	145	6, 321, 182. 77	12	117.	2	805.00	163	115, 102.
19172	40,000.00	146	23, 243, 054, 38	81	జ్	_	40,000.00	167	428,857.
1918	21, 225, 00	68	6, 730, 688. 90	∞	905	-	6, 148, 99	101	471, 968.
Total 90	54, 382, 460. 14	1, 339	146, 130, 115. 87	219	32, 775, 681. 69	81	11, 742, 771. 99	1,679	245, 031, 029. 69

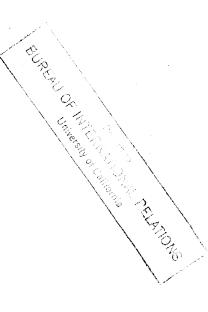


TABLE No. 54.—Resources and liabilities of all commercial banks in the Philippine Islands.

[Source: Reports of the Insular Treasurer.]

RESOURCES.

אמאימיזיאחתית		Ļ	June 30—	
KENOURCEN.	1910	1161	1912	1918
Loans and discounts	P7, 799, 683. 63	P7, 415, 454.	P11, 262, 039, 79	P11, 653, 880. 07
Overlatis Chale annities at	14,019,037.37	18, 189, 289.	23, 922, 392, 39	24, 503, 305, 11
Banking Securities, e.c. Banking bouse, furniture and fixtures	260, 067, 77	264, 966	283, 617, 34	305, 354, 03
Other real estate and mortgages owned	692, 686. 92	536, 023.	496, 497.32	334, 192. 52
Due from other banks.	277, 054, 16	466, 639.	604, 123, 16	497, 997. 15
Due from agents and correspondents	1, 672, 982, 63	2, 153, 702	3, 568, 660, 99	1 755 909 16
Bills of exchange	2, 513, 254. 89	3, 176, 654.	5, 637, 251. 16	5, 830, 284, 07
Classic on Marie and Athen each House	6, 972, 773.33		6, 747, 441, 18	7, 250, 525, 11
Profit and loss account.	19 039 54	981 994	315 443 40	183, 473. 51 876, 539, 75
Resources other than those above	903, 037. 19	1,019,991.	1, 509, 115. 05	1, 485, 520. 77
Total	45, 712, 910, 45	49, 115, 393, 72	71, 771, 455, 70	67, 403, 192, 96
LIABILITIES.				
(anital stock	P2 892 800 00	000 000	BE 500 000 000	00 000 000 Yes
Reserve fund	1.644,059.86	2, 310, 506, 31	2, 317, 902, 60	3 014 274 28
Undivided profits	311, 500.00	253, 650.	258, 700.00	312, 800, 00
Bank notes in circulation	2, 038, 772, 12	3, 300, 348. 76	5, 381, 877. 50	5, 433, 519, 80
Due to Outlet Balans	169 474 97	110 009 88	176 744 97	559.331.27
Due to head office and branches	10, 857, 477, 76	11, 179, 611, 42	23. 526. 541. 54	21.828.754.33
Dividends due and unpaid	96, 449. 50	151, 659. 50	1,635.50	227, 420, 50
Demand deposits	189, 638, 42	119, 358. 27	182, 309. 85	112, 995, 89
Time deposits	6,311,463.31	10, 349, 317, 98	10, 127, 432, 50	12, 015, 607, 66
Current accounts	18 191 008 18	14 434 010 49	18 704 471 37	15 098, 646, 41
Bills payable:			10.112, 421, 621	20, 040, 010, 02
Domestic	12, 280, 48	943	13, 381. 24	82,087.09
r Otekia. Cashiar's checks outstanding	22, 902. 27	925	156, 100, 99	57, 110. 42
Cartified checks	976 454 67	909	27, 109, 22	92,058.01
Profit and loss account	232, 070, 15	338, 366, 57	589, 391, 92	415, 421, 23
Suspense account	2,080.08	935	243, 124, 71	75, 189, 75
Liabilities other than those above.	1, 316, 566. 90	675.	2,624,516.60	1, 224, 404.86
Total	45, 712, 910, 45	49, 115, 393, 72	71, 771, 455, 70	67, 403, 192, 95

Table No. 54.—Resources and liabilities of all commercial banks in the Philippine Islands—Continued.

SECULIOSES			December 31—	er 31—			Increase or
RESOURCES.	1913	1914	1915	1916	1917	1918 a	1917 over 1916.
Loans and discounts	P9, 591, 993. 41	P9, 387, 878. 04	P9, 393, 279, 03	P21, 585, 237. 07	P52, 871, 372, 23	P115, 146, 704. 80	P31, 286, 135, 16
Overdraits	24, 3 (5, 639, 62	431.509.	1 166 633 20	9 895 946 70	539 382	947 937	643, 435.
Banking house, furniture and fixtures	317, 479, 70	320, 772	323, 275, 60	568, 010, 27	559, 074.	727, 942.	(8, 935.
Other real estate and mortgages owned	312, 504, 87	298, 769, 93	258, 939, 30	151, 160, 60	86, 260.	87	235, 099.
	365, 771, 39	426, 153, 70	451,890.86	9, 084, 581, 90	02, 618.		93
Due from head office and branches	10, 859, 558, 64	68, 582.	10, 736, 535, 12	8, 173, 980. 64	572, 099.	18, 992, 007. 70	398, 118.
Due from agents and correspondents	1, 317, 842, 48	1, 267, 428.84	1, 653, 896. 47	25, 479, 720, 49	574, 293.	31, 977, 097. 62	194, 572.
Bills of exchange	7, 259, 178, 99	309, 353.	6, 861, 126. 44	9, 595, 006. 99	55, 954.	21, 696, 016, 61	360, 947.
Cash on hand	6, 466, 001. 75	197,658.	8, 338, 678, 55	9, 986, 867. 32	Ë	33, 180, 133, 23	45
Checks and other cash items	146, 649. 44	454, 108. 22	206, 772, 25	700, 579, 07	194,008	298, 941. 02	625
Profit and loss accountResources other than those above	340, 824. 51 832, 861. 39	892, 192. 69 1, 116, 059, 54	304, 751, 22 2, 156, 523, 34	337, 244, 34 6, 181, 868, 04	350, 804, 87 25, 101, 855, 46	43, 747, 486, 13	18, 919, 987. 42
Total	63, 745, 929. 22	66, 639, 866. 94	71, 542, 868. 99	121, 954, 154. 30	239, 247, 726. 44	321, 442, 652. 25	117, 293, 572. 14
LIABILITIES							
Canital stock	500 000	9	2 500 000 000	396, 420	765	555	345.
Reserve fund	6	2, 404, 016, 16	2, 881, 671, 64	32	263	19	
Undivided profits	382, 500	868	3,848.70	369, 336.	42	247,090.12	33
Bank notes in circulation	5, 310, 695, 00	5, 404, 871.81	5, 304, 135, 00	5,841,327.50	10, 137, 357. 50	11, 736, 652. 50	4, 296, 030, 00
Due to other banks	365, 189.	338.	497, 317. 58	.992	65		8
Due to agents and correspondents	195, 657.	76, 442.	357, 084. 77	429, 508.	107	135.	66
Due to head office and branches	481.	ġ	20, 832, 492. 76	940	649	841, 976.	æi e
Dividends due and unpaid	115.	226, 905. 50	226, 655. 50	316, 265. 50	92	719, 250. 66	
Demand deposits	50,832.	90,863	83, 364, 95	326, 664.	82	216, 357.	266, 338.
Time deposits	101	964.	15, 042, 159. 63	881	32	308	96
Savings deposits	166, 072.	275, 489.	1, 157, 386, 12	503, 170.	325	731, 514.	911, 345.
Current accounts	057, 169.	600,369.	15, 615, 968. 79	798, 299.	374.	985, 280.	892, 074.
Bills payable:			;	į	į		(10 00) 00)
Domestic	35, 484. 07	9	8	124, 621. 24	4, 218.03	10.925.088.39	(120, 403. 21)
Foreign	69, 077. 98	468	54	624	389	20,000,000,000	(1, 765. 43
Cashier's checks outstanding	49, 754. 61	016	28	542	337.	1, 147, 838. 16	244, 794, 93
Certified checks	152, 610, 29	195	372	793.	92	418, 061. 13	249, 972. 09
Profit and loss account.	435, 710, 16	467.	33	007	413.	1, 323, 412, 63	273
Suspense account	137, 999, 20	114.	90	770	980	153, 514, 43	(1, 599, 089, 93)
Liabilities other than those above	1, 184, 836. 42	1, 775, 074. 73	2, 599, 903. 65	5, 011, 891. 70	21,008,637.02	44, 863, 954. 36	966
Total	63, 745, 929, 22	66, 639, 866. 94	71, 542, 868. 99	121, 954, 154. 30	239, 247, 726, 44	321, 442, 652. 25	117, 293, 572. 14
		-		I The second sec			

* From January 1 to June 30 only.

Table No. 55.—Summary of the transactions of the Postal Savings Bank.

[Source: Bureau of Posts.]

Voor anding-	Number of ac-		Deposits.	r.		Withdrawals.	als.	Ä	Balance.
Con Chaire	counts opened.	Number.	Number. Average.	Amount.	Number. Average.	Average.	Amount.	Average.	Amount.
June 30-									
1907	2, 331	7.267	108.21	P786, 361, 03	1.958	143.25	661		b P509, 463, 34
1908	5,389	18, 254	84.81	1, 548, 210, 57	7,423	158, 18	379	191.50	1, 031, 994, 04
1909	8, 782	24,851	81.00	2, 012, 967. 47	11,604	137. 54	1, 596, 002, 95	164.99	1, 448, 958, 56
1910	13, 102	32, 246	69.40	2, 237, 966, 99	16,062	124, 99	379	128.17	1, 679, 246, 35
1911	28,804	63, 613	44.74	2,846,155.46	22,004	110,25	27.	72.89	2, 099, 474, 49
1912	35,802	61, 641	50.39	3, 106, 419, 23	29,064	96.92	8	66. 73	2, 388, 986, 42.
1913	39, 909	56, 387	53, 13	2, 997, 120, 25	32,075	90, 29	324.	62. 15	2, 480, 482, 37
December 31—									
1913	42, 271	33,661	49.35	1,660,840.13	17, 755	76.46	1,319,189,73	96.76	2, 822, 132, 77
1914	48,876	72, 080	51.25	3, 694, 136, 22	39,092	85.65	3, 348, 253, 58	25	3, 168, 015, 41
1915	54, 434	76, 538	46.74	3, 577, 523, 18	44, 728	79. 19	949	28	3, 203, 589, 32
1916	60, 759	81,418	46.40	4,056,623.77	48,898	72. 56	81.	61	3, 712, 401, 50
1917	68,860	101,874	49.06	4, 998, 365, 28	61,019	78.37	587.	61.	4, 242, 179, 10
1918a	76, 111	84, 339	60.71	4, 294, 795, 63	46, 362	84.06	987.	62.	4, 783, 987. 15
			-					-	

^a From January 1 to September 30 only. ^b Interest accrued amounting to **?**3,601.52 included.

Table 56.—Philippine currency in circulation.

[Source: Annual Report of the Treasurer of the Philippine Islands.]

TABLE No. 57.—Revenue from taxation.

[Source: Annual Reports of the Insular Auditor.]

Fiscal year.	Insular.	City of Manila.	Provincial.	Municipal.	Total.	Per capita tax.
1908. 1909. 1910. 1911. 1912. 1913. 1914 b 1915. 1916. 1917.	P21, 018, 985, 67 21, 950, 629, 70 23, 220, 046, 94 24, 869, 894, 79 27, 397, 919, 03 25, 757, 990, 08 20, 103, 584, 47 25, 769, 492, 78 27, 957, 308, 95 35, 448, 412, 30	P1, 572, 756. 46 1, 447, 946. 65 1, 621, 720. 68 1, 576, 400. 03 1, 691, 632. 06 1, 780, 917. 06 2, 027, 268. 11 2, 082, 341. 29 2, 129, 220. 01 2, 213, 318. 71	P4, 442, 381, 36 5, 623, 173, 81 6, 159, 680, 27 6, 314, 247, 61 6, 314, 247, 61 a, 6, 518, 800, 23 6, 268, 326, 57 6, 180, 704, 14 6, 774, 538, 17 7, 521, 054, 83	P2, 116, 125, 00 3, 253, 176, 05 4, 188, 606, 58 4, 703, 252, 17 4, 881, 729, 83 a5, 178, 299, 85 5, 219, 499, 96 6, 051, 852, 75 6, 559, 234, 92 7, 534, 541, 18	P29, 150, 248, 49 32, 274, 926, 21 35, 190, 053, 74 37, 463, 794, 60 40, 285, 528, 53 39, 236, 007, 22 33, 618, 679, 11 40, 084, 390, 96 43, 420, 302, 05 52, 717, 327, 02	P3. 485 3. 789 4. 057 4. 241 4. 478 4. 282 3. 603 4. 218 4. 490 5. 358

a Calendar years.
b Fiscal year changed to coincide with the calendar year.

Table No. 58.—Functional activities of the Central Government.
[Source: Reports of the Insular Auditor.]

		Ü	Capital expenditures by governmental functions. ^a	ires by gov	ernmental fun	tions. a			
Year.	General administration.	stration.	Protective service.	ervice.	Social improvement.	rement.	Economic development.	lopment.	Total.
	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	Amount.	Per cent.	
1913 1914 1915 1916 1917	P2, 500, 541, 50 2, 382, 985, 76 2, 345, 637, 38 2, 918, 982, 97 3, 137, 184, 25	14. 415 14. 901 14. 332 16. 288 17. 220	P6, 421, 689, 40 6, 138, 020, 49 6, 021, 669, 51 6, 722, 114, 04 7, 332, 568, 85	37.019 38.382 36.793 37.511 40.248	75, 502, 890.31 4, 958, 763.41 4, 888, 445.47 5, 081, 598.45 5, 148, 660.04	31, 722 31, 008 29, 868 28, 356 28, 261	P2, 922, 011, 29 2, 512, 234, 48 3, 110, 889, 44 3, 197, 956, 46 2, 599, 911, 71	16.844 15.709 19.007 17.845 14.271	P17, 347, 132, 50 15, 992, 004, 14 16, 366, 641, 80 17, 920, 560, 91 b18, 218, 324, 85

^a No segregation of expenditures by governmental functions prior to 1913.

^b Aid to local governments, **P**8,974,049.32 not included.

Note.—Figures are preliminary only, and subject to alteration in a later issue.

Table No. 59.—Financial condition of the Insular Government during the last three years.

[Source: Reports of the Insular Auditor.]

Items of revenue and expenditure.	1915	1916	1917	Increase or decrease, 1916-1917.
Sources of revenue:				
Revenue from taxation	P25, 769, 492, 78	₱27, 957, 308, 95	P35, 448, 412, 30	P7. 491. 103. 35
Incidental Revenue	1, 191, 204, 53	1, 664, 392, 05	2, 296, 270 32	631, 878, 27
Revenue from commercial and in-	2, 202, 200	.,,		1
dustrial units	8, 479, 212, 96	9, 326, 810, 77	11, 832, 921, 62	2, 506, 110.85
Other income of operating units	80, 720, 73	175, 262, 89	52, 626, 02	(122, 636, 87)
Dividends on Bank stocks	0.00	157, 526, 05	314, 786, 78	157, 260.73
Income from United States Army	1	1	1	1
Transport Service	0.00	125, 315. 10	337, 470. 62	212, 155. 52
Other revenues	3, 927, 589, 70	6, 298, 239, 88	4, 498, 753. 78	(1, 799, 486. 10)
Total revenue	39, 448, 220, 70	45, 704, 855. 69	54, 781, 241. 44	9, 076, 385. 75
Expenditures:				
General administration	26, 558, 476, 16	25, 384, 849, 41	29, 437, 890, 53	4, 053, 041, 12
Expenditures of operation of in-	20,000, 110, 20			1 '
dustrial and commercial units, etc.	7, 182, 996, 20	7, 623, 904. 40	9, 063, 829, 24	1, 439, 924.84
Interest on public debt	972, 193, 75	1,000, 117, 30	1, 289, 822, 62	289, 705.32
Sinking funds		686, 873, 14	855, 639, 49	168, 766, 35
Repayment of loans	0.00	22, 500.00	22, 500.00	0.00
Gratuities	0.00	99, 476, 30	584, 353, 28	484, 876, 98
Outlays and investments	2,065,496.60	6, 042, 123, 53	3, 992, 291. 45	(2, 049, 832.08)
Other expenditures	335, 251, 25	46, 969. 05	162, 391. 13	115, 422. 08
Total expenditures	38, 097, 200. 59	40, 906, 813. 13	45, 408, 717. 74	4, 501, 904.61
Current surplus for the year	1, 351, 020. 11	4, 798, 042. 56	9, 372, 523. 70	4, 574, 481. 14
year	8, 883, 096. 66	10, 234, 116. 77	15, 032, 159. 33	4, 798, 042. 56
Current surplus at the end of the year	10, 234, 116, 77	15, 032, 159. 33	24, 404, 683. 03	9, 372, 523.70

Note.—Figures in parenthesis indicate decreases.

TABLE No. 60.—Bonded indebtedness of the central and municipal governments of the Philippine Islands, June 30, 1918.

Treasurer.]
Insular
f the
oţ
Reports
Annual
[Source:

Title.	Amount.	Date of bonds. of interest.	Rate of in- terest.	Interest payable.	Authorization.
Friar lands ten thirtieth year gold bonds, due February P14,000,000.00 Feb. 4, 1904 1, 1984.	P14, 000, 000. 00	Feb. 4, 1904	Per .	4 February, May, August, and November	Act of Congress, approved July 1, 1902, and Act No.
Public works ten thirtieth year gold bonds: First series, due March, 1, 1835. Food series, due February 1, 1836. Third series due August 31, 1836. Manila, sewer and, waterworks ten thirtieth year gold	5, 000, 000. 00 2, 000, 000. 00 3, 000, 000. 00	March 1, 1905 Feb. 1, 1906 Aug. 1, 1909	কৰ ক	March, June, September, and December February, May, August, and Novemberdo	mission. Act of Congress, approved February 6, 1965, and Acts Nos. 144, and 1964 of the Philippine Legislature.
bonds: First series, due June 1, 1935	2,000,000.00 4,000,000.00 2,000,000.00	June 1, 1905 Jan. 2, 1907 Jan. 2, 1908	কৰ	March, June, September, and December July 1, 1902, and Act No. July 1, 1902, and Act No. July 1, 1902, and Act No. July 1, 1302, and Her Philippine	Act of Congress, approved July 1, 1902, and Act No. 1323 of the Philippine
Cebu Waterworks ten thirtieth year gold bonds, due January 1, 1941.	250, 000. 00	250, 000, 00 Jan. 1, 1911	4	ор-	Actominission. Actominission. July 1, 1902, and Act No. 2009 of the Philippine
Manila Railroad purchase ten thirtieth year gold bonds, due December 1, 1946.	8, 000, 000. 00	8,000,000.00 Dec. 1, 1916	4	March, June, September, and December	Legislature. Act of Congress, approved August 29, 1916, and Act
Total bonded indebtednessTotal	40, 250, 000, 00	-			Legislature.

Norm.—The total bonded debt of the Insular Government on September 30, 1918 is \$32,000,000. The total amount set aside to pay off this bonded debt at maturity is \$8,069,579.11 on September 30, 1918.

Table No. 61.—Reserve for redemption of indebtedness of the Insular Government.

[Source: Reports of the Treasurer of the Philippine Islands.]

		Total si	inking fund res	serve at end c	of year.	Balance of bonded in-
Year ending—	Bonded in- debtedness.	Friar lands bonds.	Public Works bonds.	Manila Railroad bond.	Total.	debtedness not provided for at end of year.
June 30-	İ					
	P24 , 000, 000, 00	P1, 205, 098, 72	₱547, 052, 57	1	P1, 752, 151, 29	P22, 247, 848, 71
1909	24, 000, 000, 00		714, 201, 01		2, 106, 042, 19	21, 893, 957, 81
1910	24, 000, 000, 00		882, 973. 17		2, 759, 727. 40	21, 240, 272, 60
1911	24,000,000.00	2,711,793.72	1, 124, 083, 01		3, 835, 876, 73	20, 164, 123.37
1912	24,000,000.00		1, 370, 517. 07		4, 755, 446. 27	19, 244, 553, 73
1913	24,000,000.00	4, 166, 972. 68	1, 634, 913. 72		5,801,886.40	18, 198, 113.60
December 31	1	1	i	1		
1913	24,000,000.00		1,726,702.38		6, 153, 688. 57	17, 846, 311. 43
1914		d3, 855, 961. 19	e 1, 711, 665. 17		5, 567, 626. 36	18, 432, 373.64
1915	24, 000, 000. 00		1, 970, 202. 25		6,550,412.99	17, 449, 587.01
1916 в			2, 237, 788. 10		6, 324, 870. 96	25, 675, 129.04
1917	32,000,000.00		2, 514, 739, 45			24, 819, 489.55
1918 c	32, 000, 000. 00	4, 938, 713. 43	2, 815, 535, 18	315, 330. 50	8, 069, 579. 11	23, 930, 420.89

^{*} Friar Lands Bond, \$\textit{\$14,000,000}\$, Act No. 1034, February 4, 1902, and Public Works Bond, \$\textit{\$70,000,000}\$. Acts Nos. 1301, 1444 and 1954. \(^{\textit{\$}}\) Increase in Bonded Debt in the sum of \$\textit{\$8,000,000}\$ is due to the purchase of the Manila Railroad Company, Act No. 2615, December 1, 1916. \(^{\textit{\$}}\) From January 1 to September 30 only. \(^{\textit{\$}}\) Decrease of funds due to reversion of \$\textit{\$71,300,000}\$ surplus in accordance with Act No. 2454. \(^{\textit{\$}}\) Decrease of fund is due to reversion of \$\textit{\$72,872,58}\$ surplus in accordance with Act No. 2425. \(^{\textit{\$}}\) Decrease of fund is due to readjustment to place the sinking fund in a correct amortization basis in accordance with Act No. 2550.

TABLE No. 62.—Real estate property in the Philippine Islands in 1917.

[Source: Report of the Insular Auditor for 1917.]

	Assessed	d value of real	property.	D 1	Per ca	pita.
Provinces and cities.	Taxable.	Exempt.	Total.	Real estate tax.	Value of real estate.	Real estate tax.
Abra	P2, 991, 750.00	P3 01, 650. 00	P3, 293, 400. 00	P19, 837	P50. 535	P. 304
Albay	31, 494, 500.00	4,671,690,00	36, 166, 190, 00	268, 895	123. 792	. 971
Ambos Camarines	20, 541, 670, 00	2,606,600.00	23, 148, 270, 00	200, 191	75.581	. 683
Antique	4, 240, 220.00	757, 080. 00	4, 997, 300.00	49, 397	31.259	.308
Bataan	4, 892, 210.00	956, 180, 00	5, 848, 390, 00	39, 977	114.077	.779
Batanes	1, 113, 440.00	141, 200. 00	1, 254, 640, 00	5, 045	144. 460	. 580
Batangas	16, 991, 420, 00	2, 117, 160, 00	19, 108, 580, 00	139, 137	66, 635	. 485
Bohol	17, 251, 490, 00	3, 949, 390, 00	21, 200, 880, 00	157, 881	68.885	. 513
Bulacan		5, 578, 020. 00	36, 445, 900, 00	253, 900	145.019	1.010
Cagayan		3, 365, 530, 00	17, 319, 490, 00	152, 345	90,008	. 781
Capiz		2, 533, 040, 00	14, 505, 850.00	103,080	50,555	.359
Cavite		2, 205, 520, 00	13, 136, 680, 00	78, 795	83. 419	.500
Cebu		6, 588, 940, 00	33, 818, 250, 00	206, 890	46, 456	. 284
Ilocos Norte		2, 438, 210, 00	15, 672, 600. 00	116, 411	84.513	. 627
Ilocos Sur		1, 797, 290.00	13, 861, 630.00	102, 624	81.706	.600
Iloilo		8, 117, 030, 00	35, 228, 590. 00	242, 440	77. 440	.533
Isabela		733, 580, 00	12, 166, 330, 00	102, 719	123. 195	1.040
Laguna		2, 427, 720, 00	28, 495, 310, 00	220, 251	162, 401	1. 255
La Union		1. 417. 190. 00	12, 460, 350, 00	106, 917	83, 931	720
Leyte		3, 157, 170, 00	33, 206, 290.00	218, 255	71. 484	. 435
Mindanao and Sulu:	00,040,120.00	0, 101, 110.00	00, 200, 200.00	210, 200	11.404	. 400
Agusan	1,669,240.00	342, 630, 00	2, 041, 870. 00	18,449	33.044	. 299
Bukidnon		92, 760, 00	1, 309, 060, 00	000	21. 743	.200
Cotabato		110, 520, 00	797, 591, 00	6, 287	7. 888	. 062
Davao	5, 484, 586, 00	262, 336, 00	5, 746, 922. 00	46, 216	5. 050	. 406
Lanao		68, 660, 00	728, 590, 00	5, 369	8. 842	.066
Sulu		93, 533, 00	1, 088, 883, 00		9. 244	.055
Zamboanga	8, 236, 121, 00	1, 272, 952, 00	9, 509, 073, 00	6, 244	73.557	.769
				99, 409		
Mindoro	4, 524, 367. 80	189, 628. 95	4, 713, 996. 75	37, 274	73.913	. 584
Misamis	15, 865, 820. 00	1,059,880.00	16, 925, 700.00	145, 465	95. 556	. 884
Mountain		148,590.00	611, 380. 00	31, 221	18.343	.111
Nueva Ecija		1, 782, 190. 00	29, 072, 340.00	179, 914	173. 228	1.070
Nueva Vizcaya	2, 290, 569. 00	140, 551. 00	2, 431, 120.00	17, 785	70. 131	.513
Oriental Negros	27, 662, 100.00	3, 581, 520. 00	31, 243, 620.00	251,082	75. 444	.606
Occidental Negros	9, 199, 340, 00	1,806,950.00	11, 006, 290.00	82, 412	52.970	. 317
Palawan	936, 970. 08	308, 206. 69	1, 245, 176. 77	4, 425	10.910	. 067
Pampanga	22, 289, 670. 00	3, 461, 890. 00	25, 751, 560.00	207, 681	95.348	. 769
Pangasinan	35, 806, 970.00	6, 544, 270. 00	42, 351, 240.00	295, 111	79. 157	. 551
Rizal	24, 756, 160.00	6, 482, 930, 00	31, 239, 090, 00	199, 733	173.044	1.106
Romblon	10 484 000 00	0.155.010.00		13, 324		. 201
Samar		3, 175, 910. 00	15, 652, 870.00	152, 984	48. 128	. 470
Sorsogon		1, 781, 510.00	17, 326, 890.00	124, 689	86.182	. 661
Surigao		1, 417, 875. 00	7, 930, 925. 00	53,815	76.741	. 457
Tarlac	15, 918, 920.00	2,055,870.00	17, 974, 790.00	145, 522	107.159	.862
Tayabas	41, 329, 910.00	6,602,660.00	47, 932, 579.00	375, 546	249. 285	1.537
Zambales	4, 882, 040.00	439, 500.00	5, 321, 540.00	50, 957	48.100	. 465
City of Manila	104, 034, 710.00	64, 366, 623.00	168, 401, 333. 00	1,566,912	632.505	5.885
TotalUnited States	716, 625, 420. 88	169, 558, 485. 64	886, 183, 906. 52	6, 956, 901	90.071 995.054	0.688 4.12,

Note.—A greater part of the exempted property valued at about P150,000,000 belongs to the various religious denominations in the Islands.

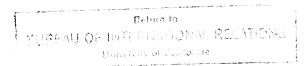


TABLE No. 63.—Health statistics of the Philippine Islands from 1904 to 1917.

[Source: Philippine Health Service.]

	Philippine Health	Marri	ages.	Birt	hs.	Dea	ths.	Num- ber of
Year.	Service's estimate of popula- tion.	Num- ber.	per 1,000.	Num- ber.	Per 1,000.	Num- ber.	Per 1,000.	deaths per 100 of births.
1904 1905 1906 1907 1908 1909 1910 1911 1911 1912 1918 1914 1914 1916 1916	8, 031, 490 8, 168, 025 8, 306, 881 8, 448, 098 8, 591, 716 8, 737, 775 8, 886, 317 9, 037, 385 9, 191, 020	(b) (b) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	(b) (b) (b) (b) (c) (b) (c) 8.647 9.594 9.344 8.751 8.152 7.067 8.327	216, 176 244, 586 215, 296 258, 010 278, 369 243, 726 290, 210 302, 855 290, 995 316, 056 347, 337 327, 206 336, 328 350, 002	27.839 30.971 26.806 31.588 33.511 28.850 33.778 34.660 32.746 34.972 37.791 35.006 35.380 36.203	146, 921 166, 555 143, 281 138, 464 190, 495 179, 355 191, 576 188, 412 185, 185 154, 086 163, 943 176, 313 190, 430 209, 444	18. 920 21.090 17. 840 16. 952 22. 932 21. 230 22. 298 21. 563 20. 839 17. 050 17. 837 18. 863 20. 032 21. 664	67.96.68.09 66.55.53.66.01:62.21:63.63:48.75.47.20:53.88-55.62.62:59.84

TABLE No. 64.—Infant mortality from 1904 to 1917, showing the proportion of deaths of infants to total number of births.

[Source: Philippine Health Service.]

Year.	Number of	Under 3	0 days.	30 days	to under ear.	1 year to 2 yea		2 year yea		Total: under 3 to 4 ye	0 days
	births.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.	Num- ber.	Per cent.
1904	216, 176 244, 586 215, 296 258, 010 278, 369 243, 726 290, 210 302, 855 290, 995 316, 056 347, 337 327, 206 336, 328 350, 002	14, 774 15, 785 14, 366 16, 344 18, 845 18, 374 20, 349 20, 599 18, 915 19, 722 22, 097 21, 403 23, 493 25, 276	6.834 6.454 6.673 6.325 6.770 7.539 7.012 6.802 6.500 6.240 6.362 6.562 6.562 6.985 7.222	33, 818 33, 277 26, 679 26, 967 34, 123 33, 032 37, 220 38, 145 35, 051 28, 490 32, 738 36, 470 33, 804 39, 710	15. 644 13. 605 12. 392 10. 452 12. 258 13. 553 12. 825 12. 595 12. 045 9. 014 9. 425 11. 146 10. 051	12, 939 15, 583 13, 809 13, 694 18, 145 19, 065 19, 492 19, 712 20, 237 13, 951 14, 305 19, 011 18, 050	5. 985 6. 371 6. 414 5. 308 6. 518 7. 822 6. 509 6. 509 6. 954 4. 414 4. 118 5. 810 5. 367	15, 489 18, 216 17, 705 15, 091 26, 014 23, 693 24, 306 24, 306 22, 652 15, 274 14, 522 17, 063 20, 298	7. 165 7. 448 8. 224 5. 849 9. 345 9. 721 8. 428 8. 26 7. 784 4. 833 4. 181 5. 215 6. 035	77, 020 82, 861 72, 559 72, 096 97, 127 94, 164 101, 520 102, 762 96, 855 77, 437 83, 662 93, 947 95, 645 108, 005	35. 628 33. 878 33. 702 27. 948 34. 898 38. 638 34. 988 33. 933 33. 284 24. 500 24. 080 28. 438 30. 858

NOTE .- No data available for 1918.

a No data available for 1918.
 b No data available.
 c Marriages in the city of Manila for last helf of year only.
 d Marriages for the city of Manila only.

TABLE 65.—Health statistics of the city of Manila.

[Source: Philippine Health Service.]

				Dea	ths.	Rate p	er 1,000 tion.	popul a-	infant	lity of sunder of age.
Year ending—	Popula- tion.	Mar- ri a ges.	Births.	Under 5 years.	Total.	Mar- riages.	Births.	Deaths.	total	Per- cent- age on total deaths.
June 30— 1908	223, 542 223, 542 234, 409 234, 409 234, 409 247, 756 266, 943 266, 943 266, 943	(a) (a) (a) 1,493 2,140 1,051 2,336 2,176 2,366 2,285	8, 674 8, 685 9, 914 9, 180 9, 340 4, 721 9, 599 8, 850 9, 082 8, 597	5, 526 6, 120 5, 152 5, 120 5, 572 1, 947 4, 332 4, 725 4, 621 3, 817	9, 351 10, 287 8, 727 8, 279 9, 285 3, 678 7, 811 8, 134 8, 489 7, 911	6. 37 9. 13 8. 75 8. 15 8. 86 8. 56	38. 80 38. 85 42. 29 39. 16 39. 84 37. 82 35. 95 33. 15 34. 02 31. 05	40.01 46.01 37.22 35.31 39.61 29.46 29.26 30.47 31.15 29.64	63. 71 70. 47 51. 97 55. 77 59. 66 41. 24 45. 13 53. 31 50. 88 48. 25	59. 09 59. 49 59. 04 61. 84 60. 01 52. 94 55. 46 58. 09 54. 44 44. 39

^a No data available. ^b From July 1 to December 31 only.

Table No. 66.—Public education. All Schools except the University of the Philippines.

[Source: Bureau of Education.]

Per cent	ment to	popula- tion.	34.09	40.10	40.61	41.46	35.32	22. 26	39. 33	39.21	39.62	41.22	40.54
1	Estimated school	population.	1, 394, 000										
A system	cost of	per pupil.	10.53	10.08	11.03	10.56	10.43	14.68	12.30	12.97	11.64	13.56	
	Total expenditures.		P5, 127, 117. 15	9	326	713.	936	322	178	121.	439	žį	
Average	of of pupils to	each teacher.	45.5	46.2	20.5	49.2	60.4	42.9	54.0	49.7	47.7	46.1	42.8
		Total.	7,454	8, 774	9,007	980 6	6, 632	7, 671	9,642	10,075	10, 963	12, 293	13, 286
rvisors.	inos.	Female.	1,999	2,315	2,443	2, 463	1,886	2,218	2, 681	2,884	3,266	3,840	
Feachers and supervisors.	Filipinos	Male.	4,833	5, 634	5,832	5,940	4,082	4, 795	6, 169	6,641	7, 191	7,986	12,875
Teacher	Americans.	Female.	187	255	239	243	231	212	195	162	156	142	
	Amer	Male.	535	220	493	440	433	446	417	388	320	325	411
	Average daily at-	remanice.	264, 807	239, 622	314, 336	355, 722	329, 073	287, 995	428, 552	448,014	471, 195	514, 263	521, 377
Ayorogo	monthly enrol-	ment.	339, 243	405, 478	427, 165	446,889	395, 075	329, 756	489,070	501,630	523, 272	567, 625	569, 475
[a+oE	annual enrol-	ment.	486,676	570, 502	587, 317	610, 493	529, 665	440,050	621,030	621, 114	638, 543	675, 998	671,398
	Number of	schools.	3, 932	4, 424	4,531	4,404	3,685	2,934	4, 235	4, 291	4,412	4, 702	4, 747
	Year.		1908	1909	1910	1911	1912	1913	1914	1915*	1916	1917	1918 a

a Includes Department of Mindanao and Sulu.

THE PHILIPPINE PUBLIC SCHOOL SYSTEM.

By Dr. W. W. MARQUARDT, Director of Education.

ORGANIZATION OF THE BUREAU OF EDUCATION

The school year in the Philippine Islands begins the second Monday in June and ends the first of April.

The following general statement covers the school years 1916–1917 and 1917–1918:

During this period no important change took place in the organization of the public school system. The system is a highly centralized one, the Director having charge of all public schools in the Islands. In certain matters of policy his action is subject to the approval of the Secretary of Public Instruction. Besides the Director, there is an Assistant Director, a Second Assistant Director, a general office force, and a field force.

The work of the general office is in charge of the chiefs of the following divisions: Academic, accounting, industrial, property, and records.

In the field the division superintendent of schools occupies the most important position, and is directly responsible to the Director of Education. He supervises the schools of a province and under him are usually a supervisor of academic instruction, one or more supervisors of industrial instruction, a high school principal, and several supervising teachers.

The division is divided into supervising districts, each in charge of a supervising teacher who has control of primary and intermediate schools within his district. There are forty-eight divisions and more than three hundred supervising districts.

SCHOOLS AND PUPILS

The following data show the growth in the number of schools and pupils. It will be seen that there was no increase in the number of primary schools and a very slight increase in the number of secondary schools, whereas the number of intermediate schools grew rapidly because intermediate schools are supported almost entirely by tuition fees. If intermediate schools had depended upon governmental revenues, no increase could have been made.

	Primary.	Interme- diate.	Secondary.	Total.
Schools	4, 276	423	48	4,747
(1917–18	4, 288 592, 563	368 64, 306	46 14, 5 29	4,7 02 671,3 98
Annual enrolment{1916-17	607, 682	56, 884	11, 432	675, 998
Average monthly enrolment $\begin{cases} 1917-18 \\ 1916-17 \end{cases}$	499, 986 507, 226	56, 592 50, 306	12, 897 10, 093	569, 475 567, 625
Average daily attendance	455, 754 457, 383	53, 232 47, 230	12, 391 9, 650	521, 377 514, 263
Percentage of attendance	91 per cent	94 per cent 94 per cent	96 per cent 96 per cent	92 per cent

One encouraging feature of attendance figures is that the proportion of girls to boys in the public schools, especially in the higher grades, is increasing. Gradually the Oriental attitude toward education of women is being overcome and at present nearly 40 per cent of the total number of pupils in school are The greatest difficulty has been experienced keeping girls in school after they finish the primay grades and even before they finish the primary grades. Statistics show, however, that the proportion of pupils who are girls in higher grades is gradually increasing. Comparison of figures of attendance of boys and girls in intermediate grades for the school years 1910-1911 and 1916-1917, shows that the increase in attendance of boys was 82 per cent while that of girls was 222 per cent. high schools the figure for boys was 250 per cent and for girls, These data indicate that an increasing number 267 per cent. of girls are no longer content with a primary education. the introduction of the new secondary course in housekeeping and household arts it is believed that a proportionate increase in the number of girls in the high schools will take place.

Extension of school facilities among non-Christians has gone on rapidly. The Philippine Legislature was liberal in the appropriation of Insular funds for this purpose and the funds were distributed to help equalize educational opportunity. Consequently the number of schools for non-Christians and the attendance of non-Christians increased greatly. Special attention was given to fitting instruction to the varying needs of these people. Agricultural instruction was emphasized in practically all new schools opened for them.

PHYSICAL EQUIPMENT OF THE PUBLIC SCHOOLS

The past two years saw great improvement in the equipment of public schools, especially in regard to school furniture. There was also an increase in the number of school sites and school buildings.

The number of school sites for 1916 was 2,623 and for 1918, 2,824. Considerably more than one-half of these sites are first-class according to the classification below.

A. FIRST-CLASS SITES

- 1. A minimum area of one-half hectare for every 200 pupils of the annual enrolment or fraction thereof up to 2 hectares for 800 pupils or more is required.
- 2. The site must be well located and easily accessible.
- 3. The site must be well drained and sanitary.
- 4. The topography must be such that a satisfactory athletic field can be laid out.
- 5. The soil must be suitable for gardening.

B. SECOND-CLASS SITES

- 1. A minimum of one fourth hectare for every 200 pupils of the annual enrolment or fraction thereof up to 1 hectare for 800 pupils or more is required.
- 2. An unsanitary site or one entirely unfit for gardening and athletics should not be considered second class.

C. THIRD-CLASS SITES

1. All other sites come under this head.

Conditions brought about by the Great War have greatly increased the cost of construction of all types of buildings, especially of the standard reinforced concrete structure, the type of permanent building commonly erected for school purposes. Construction of this type of building has continued, however, because relief from high costs of materials can scarcely be expected for some years to come and the additional prosperity tends to lessen the burden of increased cost of construction. In 1917, 840 buildings, 448 of which were of reinforced concrete, were classed as permanent, while in 1916, only 757 were so classified.

The greatest advance in physical conditions during the last two years took place in the equipment of schools with suitable school desks and other furniture. At the close of the school year 1917–1918 there were comparatively few provinces in which any large proportion of pupils were without desks. In the campaign to provide each pupil with a desk of approved type the provincial trade schools and school shops rendered valuable service and in addition constructed teachers' tables, bookcases, and other school furniture.

TRAINING AND WELFARE OF TEACHERS

Facilities for training teachers both before and after they enter the teaching service were materially increased during the last two years. Attendance in the higher classes of the Philippine Normal School greatly increased and the total number of

graduates from this institution for the last three years is greater than the total number of graduates for all preceding years.

The Philippine School of Arts and Trades continued to turn out teachers of woodworking and mechanical drawing, and the Central Luzon Agricultural School sent out a large number of teachers to agricultural, farm, and settlement farm schools. These teachers were scattered throughout the Archipelago, but a large number of them went to the Department of Mindanao and Sulu where many new settlement farm schools have been opened.

The settlement of five hundred teachers representing practically every province in the Philippine Islands in the Department of Mindanao and Sulu is a significant development in education and in the problem of final unification and nationalization of the people of these Islands.

At the beginning of the school year 1916–1917 a four-year normal course was organized in five large provincial high schools. At the same time the course of study in the Philippine Normal School was revised so only students who had completed the first year of the regular high school course were eligible for entrance. The Philippine Normal School now gives a special one-year course for supervising teachers and principals in addition to its courses in academic, industrial, domestic science, and physical education. In 1917 a two-year normal course was outlined and put into effect in two or three high schools where the complete secondary course was not offered.

The Legislature in 1917 appropriated \$150,000 for the establishment of two new normal schools, one in Northern Luzon and one in the Visayas. Large sites for these schools have been secured and construction is expected to begin soon.

The College of Education of the University of the Philippines now has a larger attendance and is supplying teachers for secondary work. It is evident, however, that this institution can do little towards supplying enough secondary teachers when the average attendance of secondary students is more than 12,000 and when the yearly increase is so great that the attendance almost doubles every three years. At present, the problem of securing suitable secondary teachers is acute. Due to the war it is impossible and undesirable to get young men from the United States; and, while a certain number of women teachers have been secured, not enough are now (August, 1918), available to properly staff our secondary schools.

A rather complete system for the training of teachers in service has been developed because a large proportion of teachers have had little or no actual training in normals or other schools

Sections and interesting as included

for the preparation of teachers. During each of the school years 1916–1917 and 1917–1918 about 800 selected teachers from all divisions attended for a five-weeks period the teachers' vacation assembly in Manila, where primary and intermediate methods, and the latest developments in industrial work were emphasized. Upon returning to their divisions the teachers who attended the assembly in Manila became instructors for four weeks in division normal institutes for division teachers. The assembly in Manila and the division institutes which followed were of utmost importance in the improvement of the character of academic and industrial instruction. A professional reading course for all intermediate teachers has been outlined for the present school year.

Other agencies used for improving the quality of teachers are: Visiting days, which have become a feature of school work in practically all divisions, and teachers' meetings of various kinds.

The teachers' vacation assembly, held in Baguio during April and May of each year and attended by American and Filipino teachers and supervisory officers, is also an important factor in improving school work. Conferences lasting a week each were held (1) for teachers and principals of intermediate and high schools, (2) for supervising teachers, and (3) for industrial teachers. Following these conferences was the convention of division superintendents.

Classes for Filipino supervising teachers were also held in Baguio. In 1918 for the first time model classes were conducted in connection with these classes. Model classes henceforth will be the most important feature of the teachers' vacation assembly in Manila and of the division institutes.

TEACHERS AND THEIR WORK

The number of teachers on duty in March of each of the last three years is shown below.

 .		March.					
Teachers.	1916	1917	1918				
Americans Insular	506	477	411				
Insular Municipal Apprentice	1,279 9,138 40	1, 391 10, 336 99	1, 389 11, 484 2				
Total	10, 963	12, 303	13, 286				

The number of American teachers has decreased nearly 100, the number of Insular teachers has increased 110, and the number of municipal teachers has increased at the rate of more than 1,000 a year.

Return to
EUREAU OF INTERNATIONAL RELATIONS
University of Culifornia

The following table shows the number of teachers assigned to various duties in March of each of the last three years:

Teachers.		March.	
reachers.	1916	,1917	1918
Primary Intermediate Secondary Industrial instruction and supervision General supervision	8, 495 1, 104 231 800 303	9, 585 1, 339 268 891 320	10, 437 1, 886 343 213 340

COURSES OF STUDY

An important change in the courses of study was the introduction of new courses in secondary schools. The primary course of study has remained practically unchanged. Few changes were made in intermediate courses where, however, some interesting developments as regards distribution of pupils among the courses took place. The enrolment in intermediate grades by courses for March of the last three years is shown below.

Courses.	March.		
	1916	1917	1918
General Teaching Trades Farming Housekeeping and Household Arts	23, 129 7, 412 3, 582 1, 380 5, 917	30, 399 3, 436 3, 510 1, 662 7, 585	35, 999 1, 861 3, 000 1, 721 9, 449

These figures show that the intermediate teaching course is dead. Practically no pupils were enrolled in this course at the beginning of the school year 1918–19. Teachers of higher attainments than the completion of an intermediate course are now available in most provinces. The table shows a large increase in the number of girls enrolling in housekeeping and household arts and a small increase in enrolment of boys in the farming course. A greater increase is expected in the farming course.

In 1918 new secondary courses were outlined. The general course and the four-year normal course were revised. Courses in housekeeping and household arts, in commerce, and in agriculture were outlined for the first time. It is not expected that these new courses will be used in all provincial high schools, but they will be given in several of the larger schools where the number of pupils and the equipment make a diversification in courses feasible.

In addition to the courses offered in provincial high schools

there are six Insular schools—the Philippine Normal School, the Philippine School of Arts and Trades, the Philippine School of Commerce, the Philippine Nautical School, the School for the Deaf and the Blind, and the Central Luzon Agricultural Schoolwhich offer special courses. The work of the Philippine Normal School has already been mentioned, as has also the fact that the Philippine School of Arts and Trades and the Central Luzon Agricultural School give courses of training for industrial and agricultural teachers. The Philippine School of Arts and Trades also gives courses in woodworking, ironworking, electrical wiring, plumbing, automobile operation, preparatory engineering, The Philippine School of Commerce gives and surveying. courses in bookkeeping, stenography, typewriting, and com-The Philippine Nautical School gives a two-year course of training to fit young men to become officers on interisland vessels and transpacific steamers. The Central Luzon Agricultural School offers in addition to its teaching course a course in farm management and one in the operation of steam and gas engines.

PHYSICAL EDUCATION AND MEDICAL AND DENTAL INSPECTION

The war has directed attention to the necessity of conserving human life and of increasing efficiency. For years practically all students in Philippine public schools have engaged in some form of physical exercise, the effects of which upon the physical development of the Filipino people are distinctly apparent. During 1917–1918 military training was prescribed for all boys in high schools and physical education was given a more definite place in all secondary courses of study. A complete course in physical education for primary, intermediate, and secondary grades is being prepared. When this is published, instruction will be more systematic and uniform.

Medical and dental inspection of pupils is in the hands of the Philippine Health Service which has done valuable work along this line. It did not give to these matters all the attention needed, however, because of lack of sufficient personnel. Medical inspection has been quite general, but dental inspection has been limited to a few places. During the last year a letter was addressed to division superintendents requesting them to take up with provincial boards the matter of providing more adequate medical and dental inspection in the public schools and of securing additional nurses for public school service. As a result increased attention has been given these matters, but conditions are yet far from satisfactory and will remain so until there are several provincial nurses in each division; at least one municipal

nurse in each large municipalities; and an adequate corps of physicians to examine pupils for defects and diseases.

WAR ACTIVITIES OF THE BUREAU OF EDUCATION

The public schools entered the food production campaign with enthusiasm and as a consequence the cultivated area of school and home gardens and the production of food doubled. Thus the Philippine Islands helped to conserve food for the Allied forces and, in addition, many Filipinos enjoyed a more varied diet.

Red Cross work was done in the schools in 1917, but this work is now being undertaken on a larger scale. In the public schools bandages for wounded soldiers and clothing for French and Belgian refugee children are being made in large numbers. A Red Cross membership campaign just ended has resulted in the enrollment of more than 12,000 teachers as senior members of the Red Cross Society and more than 200,000 pupils as junior members. During the teachers' vacation assembly in Baguio a Red Cross drive on May 7, 1918, resulted in the raising of \$2,500.

American and Filipino teachers and other employees have subscribed liberally for Liberty Loan Bonds. Employees of the Bureau of Education purchased more than \$60,000 worth of Liberty Loan Bonds of the third issue in addition to their subscriptions to the first and second issues.

ACADEMIC INSTRUCTION

A great improvement in academic instruction took place during 1916–1917 and 1917–1918. This was largely a result of better facilities for training teachers, and closer and more effective supervision. The appointment of a larger number of academic supervisors helped to make supervision much more satisfactory. However, much variation in efficiency of instruction still exists.

In academic instruction increased efficiency—the main factor in the promotion of pupils—was shown by the average increase of 6 per cent in promotions in all grades for 1916–17 over 1915–16. As this increase was not due to any lowering of standards, it was significant.

INDUSTRIAL INSTRUCTION

Industrial instruction occupies an important place in the courses of study. About 17 per cent of the total time in primary grades and 18 per cent of the total time in the general intermediate course is devoted to this form of instruction. In special intermediate courses and in special types of primary schools about half of the time is devoted to industrial work. The follow-

ing data give an idea of the value of the commercial output of the public schools for the school year 1917–18: Embroideries, \$12,500; lace, \$9,000; crochet, \$4,500; sewing, \$28,000; cooking, \$3,500; basketry, \$33,000; hats, \$1,500; products of loom weaving, \$3,500; bamboo-rattan furniture, \$3,000. A large number of other articles were made in small quantities.

The value of the gross output of trade schools during the last three years follows: For 1915, \$61,418.81; for 1916, \$79,132.04; for 1917, \$106,485.12. These figures include cost of material and therefore do not give a definite idea of the total value of work done by pupils.

Due to war conditions the total value of embroideries exported from the Philippines increased from \$162,456 in 1914 to \$1,561,214.50 for the fiscal year, July 1st, 1916, to June 30, 1917. A part of this increase was undoubtedly made possible by instruction given in the public schools.

War conditions have not been favorable for the production of all commercial articles in the public schools, however. The great increase in transpacific freight rates has made it unprofitable to export articles the value of which is not relatively great as compared with weight and bulk. Excessive cost of transportation has thus made it necessary to abandon the making of larger and more bulky articles.

The Bureau of Education through traveling industrial teachers has fostered household centers, the member of which engaged in the making of embroidery, lace, and other articles of handicraft. The Bureau of Education gave up the supervision of these centers as soon as they were developed to a point where they could deal directly with business houses.

During the last year the value of school production of articles of handicraft was \$86,270.50 and the value of production of household centers was \$11,782. Articles to the value of \$92,200 were sold through the General Sales Department of the Bureau of Education, and local sales amounted to \$5,852.50.

AGRICULTURAL INSTRUCTION

Facilities for agricultural instruction were developed and extended. The number of agricultural, farm, and settlement farm schools increased from 79 for the year 1915–16 to 138 for 1917–18. Of the increase, 9 were agricultural schools; 12, farm schools; and 117, settlement farm schools. During the same period enrolment in these schools nearly doubled; the cultivated area doubled; and the total value of production much more than doubled, having been more than \$45,000 for 1917–18.

Agricultural clubs for boys and girls were organized in

1916-17. Club projects now include gardening, cooking, chicken and hog raising, and fruit growing. At the end of the year 1916-17 club members owned 31,538 chickens and 2,247 hogs. During 1917-18 the number of clubs increased to 1,136 and at the end of the year the number of chickens and hogs owned was 58,458 and 2,744 respectively.

An organization pamphlet and 120 lesson leaflets are now being distributed to members and these help to direct the work and make it more effective. The work of these clubs has an important bearing upon the educational and economic development of the country. This is an agricultural country and everything that tends to increase agricultural production brings nearer the time when all, instead of one-half, of Filipino children may enjoy educational privileges.

School and home gardens did much to provide a varied diet and to improve living conditions. The following table shows the number of school and home gardens for the last three school years:

Gardens.	1915-16	1916-17	1917-18
School gardens Home gardens	3, 545	3, 960	4, 023
	48, 432	54, 655	103, 668

Garden days, 1,272 of which were held in 1917–18, aroused interest in home gardening. At these celebrations pupils and farmers not only exhibited garden products, but exhibited domestic animals as well. The Bureaus of Agriculture, Forestry, Health, and Constabulary coöperated with the Bureau of Education in furnishing exhibits for some of the garden days. During each of the last three years approximately 100,000 shade and fruit trees were distributed to the public through public school nurseries.

THE INFLUENCE OF THE PHILIPPINE PUBLIC SCHOOL SYSTEM IN THE FAR EAST

During the years 1916-17 and 1917-18 the public schools were visited by a large number of delegations from China who studied the school system thoroughly. A commission from Formosa and a number of visitors from Japan showed much interest in Philippine public schools. Constant requests were received for publications from such countries as China, Siam, India, Egypt, Burma, Hawaii, Japan, Chosen, French Indo-China, Ceylon, Cuba, Porto Rico, Hayti, Australia, Straits Settlements, Federated Malay States, Papua, Java, Sumatra, Formosa, Newfoundland, Chile, New Zealand, and Fiji.

During this period Filipino teachers started rendering service in foreign countries. Two industrial teachers were sent to Guam to undertake the development of industrial instruction there along the same lines followed in the Philippines. A Filipino teacher of industrial work, who was furnished the Government of the Federated Malay States, made good in the Malay Training College for Teachers at Malacca. Two Filipino teachers were employed as instructors in English in the mission schools of Penang.

Table No. 67.—Public expenditures for education from 1908-1917.

[Source: Annual Reports of the Director of Education.]

		State exp	enditures.			Per capita
Fiscal year ending—	Insular.	Provincial.	Municipal.	Total.	Voluntary contri- butions. a	ex- pend- iture on edu- cation.
June 30—						
1908	P3, 402, 119.59	P216, 955. 80	P1, 508, 041, 80	₱5, 127, 117. 19		₱0.6877
1909	3, 847, 157, 59	228, 691, 23	1,672,148.50	5,747,997.32		0.7586
1910	4,056,588.93	285, 159. 97	2, 133, 577. 91			0.8409
1911 b	3, 721, 966, 49	209, 286. 64	2, 516, 460. 12	6, 447, 713. 25		0.8238
1912 ь	3, 819, 750, 74	208, 157, 39	2, 325, 394, 67	6, 353, 302. 80	P174, 333.85	0.7987
1913	3, 868, 400, 96	183, 285, 63	2, 211, 091, 36	6, 262, 777. 95	198, 544, 46	0.7747
December 31—	. ,					
1914	4, 589, 733. 99	249, 351. 85	2, 455, 660. 18	7, 294, 746. 02	344, 432, 63	0.8735
1915c	4, 905, 296, 16	472, 538. 29	2, 303, 304. 34	7, 681, 138. 79	374, 982. 31	0.8083
1916 c	4, 472, 715.98	443, 166.96	2, 164, 813.69	7, 080, 696, 63	349, 743, 19	0.7334
1917°	5, 176, 788. 42	463, 843, 76	2, 394, 787, 79	8, 685, 419. 97	478, 802, 61	0.8839
-	, ,					

Table No. 68.—Roads in existence from 1908 to 1918.

[Source: Bureau of Public Works.]

Year.	First- class road.	Second- class road.	Third- class road.	Total.	Expenditure for repair of old roads.	Cost of construction of new roads.	Total expenditure for roads.
1908	Km. 397. 0 553. 5 1230. 2 1587. 6 1839. 6 2097. 3 2233. 8 2564. 0 3067. 7 3439. 6 3738. 7 3936. 0	Km. (a) (a) 1031.3 1068.9 2159.9 2034.6 2024.6 2024.3 2082.2 2045.8 2056.6 2019.9	Km. (a) (a) 3337.6 2956.8 3216.8 3118.1 3138.7 2875.7 3051.7 3440.7 3348.4 3294.8	Km. 397. 0 553. 5 5599. 1 5613. 3 7216. 3 7250. 0 7397. 1 7464. 0 8201. 6 8926. 1 9188. 9 9250. 7	(a) (a) (a) (a) 1, 415, 150, 53 1, 579, 104, 82 839, 981, 26 1, 548, 753, 85 1, 827, 041, 05 2, 114, 534, 144, 10 2, 704, 146, 60 1, 775, 839, 52	(a) (a) (a) (a) 4,545,733.03 4,546,708.14 5,370,491.57 2,840,453.83 5,652,436.94 5,872,056.81 5,920,606.95 6,148,213.45 3,969,000.00	(a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c

Contribution in the form of land, buildings, labor, and money.
 Excluding expenditures from Insular funds for school-house construction and for support of government students in Insular Schools.
 Including expenditures in the Department of Mindanao and Sulu.

<sup>a Data not available.
b July 1 to December 31, 1913.
c January 1 to June 30 only.</sup>

TABLE No. 69.—Artesian wells drilled from 1908 to 1917.

[Source: Bureau of Public Works.]

Year.	Number of success- ful wells drilled (deep wells).	Average depth of	Average flow per minute of each well in liters.	Total expenditures.
1908	8 11 15 17 41 92 55 103 139 122 108	244. 51 148. 03 168. 35 184. 56 147. 54 145. 72 136. 75 115. 52 91. 40 94. 39 85. 94	92. 26 401. 44 210. 95 294. 57 193. 17 178. 57 144. 12 152. 97 133. 70 125. 77 102. 13	(a) P197, 820. 35 366, 916. 64 377, 903. 99 420, 841. 12 174, 656. 87 284, 579. 48 269, 593. 49 234, 705. 44 219, 295. 80
Total	711	142.06		2, 546, 313. 18

a Data not available.

Note.—No report available for the period from January 1, 1918, to June 30, 1918.

Table No. 70.—Postal and telegraph service.

[Source: Bureau of Posts.]

	Numbe	er of posta	l savings l	banks.		Normal and		Number
Year.	Class 1.	Class 2.	Class 3.	Total.	Number of money order offices.	Number of telegraph offices.	Number of post offices.	of munic ipalities with free delivery service.
906					62	161	475	
907	9	86	140	235			505	a 1
908	12	106	127	245			540	31
909	20	99	132	251	79	162	553	35
910	25	232	36	293	118	211	556	115
911	26	270	118	414	209	238	572	296
912	39	267	131	437	253	270	587	398
913	39	269	129	437	285	293	661	449
914	271	168		439	302	303	685	447
915	304	169		473	311	311	693	451
916	310	74		384	315	314	802	457
917	312	76		388	318	315	818	458

^{*} In Manila only.

Table No. 71.—Registered Mail Handled.

[Source: Bureau of Posts.]

Year.	Pieces of mail reg- istered at Phil- ippine offices.	Pieces received from United States.	Pieces received from foreign coun- tries.	Pieces sent to United States.	Pieces sent to foreign coun- tries.	Pieces sent from one Phil- ippine office to another Philip- pine office.	Pieces handled by Manila post office.
1906	280, 044 346, 333 379, 062 434, 989 510, 085 535, 137 617, 876 644, 494 641, 823	34, 443 38, 585 46, 006 46, 614 48, 283 57, 729 67, 151 51, 031 27, 738 26, 295 29, 440 32, 657	52, 708 54, 536 62, 015 61, 507 63, 088 64, 071 74, 124 72, 425 70, 010 58, 192 58, 265 56, 458	\$9,692 46,328 47,149 55,653 61,223 66,671 78,728 72,722 72,481 71,663 81,822 93,968	37, 687 36, 588 43, 935 45, 579 47, 124 49, 080 50, 284 47, 143 52, 972 48, 126 49, 484 46, 598	168, 452 197, 128 255, 249 277, 830 326, 642 394, 334 411, 125 498, 011 519, 041 522, 034 588, 242 673, 563	297, 750 331; 365 373, 952 398, 578 434, 506 677, 350 633, 910 650, 805 647, 959 611, 735 662, 903

a Data not available.

Return to

YURZAU OF INTERNATIONAL RELATIONS

TABLE No. 72.—Money Order Service.

[Source: Bureau of Posts.]

Philippine Islands orders paid in the United States	and other countries.	P. 166, 718, 66 1, 282, 289, 02 1, 288, 566, 71 2, 530, 422, 917, 724, 686, 68 3, 459, 917, 78 3, 286, 580, 68 3, 286, 580, 68 2, 284, 414, 62 2, 977, 719, 40
Orders of the United States and other countries paid in the Philippine Islands.	Amount.	(a) (a) (a) (a) (b) (c) (a) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Orders o States countrie Philipp	Number.	(a) (a) (a) (a) (a) (a) (a) (a) (a) (a)
e in the sessions.	Person.	(a) (a) (a) (a) (b) (a) (b) (a) (b) (a) (b) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
Orders issued payable in the United States and possessions.	Amount.	(a) (a) (b) (c) (d) (d) (d) (d) (d) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e
Order United	Number.	(a) (a) (a) (b) (a) (b) (a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d
in the	Pesos.	P16, 401. 44 19, 658. 59 21, 629. 20 21, 629. 20 67, 837. 86 70, 60, 712. 48 59, 891. 46 79, 178. 16 86, 931. 40
Orders issued payable in the Philippine Islands.	Amount.	P3. 687, 126. 81 3. 229, 446.09 3. 645, 123. 13 8. 645, 123. 13 9. 781, 670, 48 12. 265, 166. 15 11. 848, 901. 70 11. 489, 007. 02 115, 453, 467. 04 16, 996, 113. 82
Ordere	Number.	94, 261 98, 813 107, 751 126, 148 151, 357 191, 654 160, 524 160, 524 160, 524 160, 524 160, 53 285, 665 384, 066 381, 066
Уеат.		1906 1907 1909 1910 1911 1912 1918 1914 1916 1916

a No data available.

TABLE No. 73.—Meteorological data for Manila Central Observatory.

[Source: Weather Bureau.]

		Air t	empera	ture.	Rela-		Evap-				
Year.	Pres- sure		Me	Mean.		Vapor pres-	oration free expo-	Wind velocity	Cloud	Sunshine	
	(mean)	Mean.	Maxi- mum.	Mini- mum.	ity (mean)	sure (mean)		(mean)	(mean)	(total)	(total)
	mm.	∘ <i>C</i> .	°C.	°C.	Per. ct.	mm.	mm.	Km.	0-10.	h. m.	mm.
1900	59, 22	27.3	31.6	23.0	79.6	21. 2	(a)	7,414.4	6.0		2, 125. 7
901	59. 13	26.9	31.2	22.3	79.4	20.8	(a)	7, 186. 6	6.4	2,309 45	
902	59.32	26.7	31.0	21.9	78.8	20.4	(a)	7,250.5	6.1		1,716.7
903	59. 18	27.2	31.8	22.0	74.8	19.9	(a)	6, 728. 2	6.5		1,030.4
904	58.69	26.1	31.0	21.8	79.5	19.9	(a)	6, 244. 3	7.2		2, 136. 8
905	59.46	26.4	31.7	21.4	79.6	20. 1	(a)	6, 399. 9	6.3	2,410 35	
906	58.72	26. 9	31.8	21.8	79.9	20.8	(a)	6,483.0	6 7	2,379 20	
907	58.71	26. 4	31.4	21.9	79.2	20.0	(a)	6, 479.6	6.8		1,840.8
1908	58.67	26, 2	31.4	22.0	80.8	20, 1	(a)	6,550.4	6.9		2, 481. 0
1909	58.54	26.4	31.7	22.3	79.5	20, 2	(a)	6, 188. 4	6.8	ы, 793 05	1, 836. 7
910	58. 58	26.2	31.7	22.4	80.8	20.2	99.8	5, 539.0	7.1		1, 921. 7
911	58.93	26.1	31.9	21.9	79.5	19.8	107. 2	6, 695. 0	6.6		1, 717. 6
912	59.20	26.6	32.5	22.4	77.4	19.7	128.6	6, 502. 2	6.5		1, 934. 1
1913	59.2 0	26.2	31.9	22.3	80.0	20.0	106. 2	5, 955. 6	6.8		1, 921. 8
1914	59.67	26.3	37.4	22.2	78.3	19.7	126.0	6, 299. 7	5.9	2,288 01	2, 435. 1
1915	58. 92	26. 9	32.6	22.9	79.0	20.6	126.0	5, 836. 4	6.3		1,914.9
1916	58.14	26.2	31.5	22.6	81.6	20.5	99. 5	5, 431. 5	6.9	1,865 25	
1917	58.46	26.3	36.0	22.6	82.2	20.6	95.5	5, 289. 2	7.3		2, 329. 4
1918¢	59.38	25.7	31.5	21.1	75.8	18.5	134.7	5, 602. 7	6.2	1,043 50	351.0

No data available.

b For eleven months only. c January 1 to June 30 only.

THE CLIMATE OF THE PHILIPPINES

By Rev. José Algué, S. J., Director of Weather Bureau.

As the climate of a country is the complex of the average of the atmospheric conditions which have an influence upon organic life an adequate study of the different elements which go to make up these atmospheric conditions in the Philippines would give a true idea of its climate.

The more important elements which form the climate may be reduced to three, viz, heat or temperature; water vapor in its different forms, such as humidity, evaporation, clouds, and precipitation; and finally, the movement or circulation of the atmosphere, which includes the direction and force of the wind, cyclonic and noncyclonic storms, together with local and general storms. Atmospheric pressure is not, properly speaking, a climatological element, but, as it serves as an indication of the general variations of the climatological elements, strictly so called, a few words will be said occasionally on it, in so far as it has any relation to the above-mentioned elements.

The Philippine Archipelago is situated in the Torrid zone or within the Tropics. The climate is, therefore, generally speaking, tropical, although there are points in the islands where it can not strictly be so termed. The exceptions are due to the fact that there are so many causes which influence the climatological conditions of the Archipelago, so that the different islands, and even different parts of the same island, have meteorological values so unlike that they possess climates entirely distinct. Not only does the latitude affect the climate, as the name "climate" itself seems to indicate, but also the altitude, the relative distribution of land and sea, the size and configuration of the island, the proximity of mountain ranges, the composition of the soil, the vegetation, the ocean currents—especially those in the straits and the channels-in fine, all those causes which can in any way modify the climatological elements already mentioned.

Before speaking of these elements we propose to say a few words concerning the effects of each of the above causes in the different regions of the Archipelago.

IN**306**ALBS HAMCHIARSHIM RC HABRES Market in the second

¹ In its original and stricter etymological meaning the word climate (Greek $\kappa\lambda l\mu\alpha$, slope or inclination) was applied to one of a series of regions or zones of the earth running parallel to the equator, from which the earth's surface was supposed to slope to the poles, hence the Latin rendering of $\kappa\lambda l\mu\alpha$, inclinatio coeli.

Latitude.—Of all the causes mentioned above which have influence on the climatological elements perhaps the relative latitude has the least influence of all. For example, Zamboanga, in Mindanao, and Aparri, in Luzon, are separated from one another by more than eleven degrees of latitude, but although Zamboanga is much nearer to the equator than Aparri, it enjoys a climate quite as mild as that of Aparri, which is at the extreme north of Luzon. The same may be said of Jolo, Davao, Dapitan, and other towns of Mindanao in comparison with those of the north of Luzon.

We can illustrate these facts by stating that the highest recorded temperature for seven years in Jolo, latitude 6° 3′ N is 36.5° °C. and for 8 years in Aparri, latitude 18° 20′ N 27.8° °C. Besides the yearly mean maximum temperature for the same period is 30.6° °C. in Jolo and 30.2° °C. in Aparri, and the average mean temperature of the hottest month is 26.8° °C. in Jolo and 28° °C. in Aparri, and finally the yearly mean minimum temperature is 22.6° °C. for Aparri and 22.8° °C. for Jolo.

Altitude.—Altitude has a great influence on temperature, humidity, and direction of the winds in the islands. This may be observed by comparing the climate of the relatively high Baguio with that of the plain of Pampanga. Many other examples of the influence which altitude has on the climate might be cited, such as the towns surrounding Lake Lanao, the altitude of which is 2,200 feet above the level of the sea, compared with the climate of the lowlands around Iligan Bay; the climate of the highlands of Abra, Lepanto, and Bontoc, with that of the Cagayan valley; the climate of the rising land all along the ridge which runs from the river Pansipit to its western slope, with the plain of Balayan, although this rising ground is only 300 feet above the level of the sea.

Distribution of land and sea.—The Archipelago is situated between the Pacific ocean and the China sea, at a distance of some 500 miles from the Asiatic continent and about 1,000 miles from Australia. On one side of the Archipelago is the lower limit of an immense area of high pressure which is caused by the cooling off of the air in the interior of the continent, and on the other is the western limit of the enormous area of high pressure situated in the Pacific. The first area of high pressure slowly changes its position during the course of the year from east to west and from west to east between the parallels 30° and 40° north. During the winter months the center of the Siberian high pressure area lends force to the polar wind currents, as well as to the northeast monsoon. The permanent center of the Pacific high pressure area, on the other land, has some influence on the predominance of the east and the southeast winds, especially at the period when the monsoon dies away. It is also very probable that the distribution of land and sea in this part of the Far East is the principal cause of the non-existence of the southwest monsoon in the Archipelago, although it blows in the Indian ocean. We have had occasion to speak of this fact in other publications, where we have proved the nonexistence of this monsoon in the Philippines.

Size, configuration, and orientation of the islands.—The climatological conditions of the eastern coasts of the larger islands of the Archipelago, such as Luzon, Mindanao, Panay, Mindoro, Samar, and Leyte, are quite different from those of the interior and western coast of these islands. This is especially the case if the islands extend from east to west, as with Mindanao, Panay, and Mindoro. If, on the other hand, the islands are not very broad and are prolonged in the direction north-south, as are the Islands Cebu and Paragua, then the difference is not so great, while if the islands are narrow, like Tablas, Dinagat, Ticao, and Burias, there is scarcely any difference between the climate of the interior and that of the eastern and western coasts, no matter what be the general direction of their prolongation. climate of the smaller islands does not suffer any modification on account of the land, but is generally that of the region they occupy; thus, for example, Capul, Viri, Laguan, and Siargao have the general climatological conditions of the east of the Archipelago, and the Islands of Corregidor, Lubang, and Calamian, those of the western coast of the Archipelago.

The proximity of mountain ranges.—Mountain ranges influence the climate of a country by protecting the lower plains from the strong winds. Thus the Sungay range protects the fertile lands of Cavite from the destructive effects of the south and southwest winds. Manila is shielded from the strong southeast winds by the Tayabas hills, and the Mountains Maquiling and Banajao. Again it is owing to the Zambales hills that the climate of the eastern slope and the Plains of Pangasinan, Tarlac, and Pampanga is so different from that of the Province of Zambales.

The well-known Province of Benguet owes its salubrious climate and its abundant rainfall in July and August in great part to the fact that there is no high land on the east and south. The prevailing winds during the months of March, April, May, and June, on the table-land of Baguio, are from the west and the west-southwest. These winds bring with them the aqueous vapor with which they are saturated, and thus cause

a moderate rainfall during May and June, which diminishes the temperature much more than could be expected from the height alone. Thus the same cause which helps to cool the lowlying plains in the western part of the Archipelago during the months of June, July, and August, also contributes to the tempering of the heat in Baguio during the months of March, April, May, and June.¹

Composition of the soil.—The geological constitution of the soil is one of the circumstances which has the least influence on the climate, still it has some influence, for, as the radiation and even the colorific capacity is quite distinct in different soils, it follows that these two factors modify to some degree the general, conditions of the climate. Thus, all other conditions being the same, the temperature of sandy soil will be different from that of clayey soil, which in turn will be distinct from the temperature of the rocky or of soft soil. For this reason there is a considerable contrast between the temperature of Cavite and that of Marilao in the Bulacan Plain, and between that of Manila and of Biñang in the Province of La Laguna, both of which places are situated at but a small height above the level of the sea.

Vegetation.—In saying that the vegetation of a country has some influence on the climate, we mean it to be taken in the sense of amount of vegetation or the amount of land covered by vegetation. Vegetation in general has a very direct influence on the condensation of aqueous vapor as well as on the radiation of heat, and consequently can modify in a very notable degree the climatological conditions. The two principal elements which it modifies are the rainfall and the temperature; thus, for example, these two elements have somewhat different values in Atimonan, Daet, and Albay, owing doubtless to the conditions of vegetation in these regions.

The general ocean currents.—If we look at a map of the isotherms of the world it will be seen that in many places they are irregular, and depart greatly from the east and west course which we would naturally expect them to follow. The reason for this variation is to be found in the course of the great ocean currents which cause the interchange of ocean waters between the equator and the poles, and thus cool or warm the surrounding land. There are two general currents which affect the zone of the Archipelago. The one which extends from latitude 5° N. to 10° N. has great influence on the temperature of the Archipelago of Jolo and the whole of the south coast of

¹ See "Climate of Baguio, Benguet," pp. 64-71.

Mindanao. The other current, which in some respects is like the Gulf Stream, but much greater, comes from the east in the Pacific and extends from close to latitude 10° N. as far as the northern extremity of the Tropics, that is, as far as 23° N. This immense current inclines to the north on reaching the Archipelago and then curves to the south of Japan and flows on from there to the east. As this current brings cool water, it tempers the heat of the eastern coasts, especially during the hot months, when the influence of the north monsoon has become a minimum—that is to say, during the month of March, April, and May, during which months it is very probable that this current also contributes to the prevalence of the winds from the second quadrant.

Special currents in the straits and channels.—Beside the general ocean currents, of which we have spoken above, there are smaller currents in the straits, and channels between islands, which are in part caused by the general currents. These small currents have much influence on the climate, as is shown by the climate of Zamboanga and the Island of Basilan, which is modified by the currents of the Basilan Channel. Again, the climate of Aparri and the Batanes are influenced by the currents in the Balintang and the Bashi Channels, and the peninsula of Sorsogon and the north coast of Samar by the currents in the San Bernardino Strait.

Accordingly, as these causes, either individually or in various combinations, affect the different regions of the Archipelago, the climates of these regions have different characteristics. These it is the aim of this paper to group and classify.

Leaving aside the minor modifications of climate and taken only into consideration wind currents and the precipitation we may consider three kinds of climate prevailing over the whole Filipino group of islands.

In fact the difference of climatic conditions of the different parts of the Archipelago depends mostly on the local currents as a combined resultant of the general winds, position and size of the islands, and the storm center.

Generally speaking, we may assume that the resultant direction of these current in the Philippines is from north to east during the period October to January, from east to southeast from February to April, and for the rest of the year southerly directions ranging from southeast to southwest predominate, due chiefly to storm centers. We may add that such currents are the principal cause of the distribution of rain, which constitutes a very important factor of climate. We may further add that as the result of long experience it may be stated that,

in the Philippines, currents from northwest to west and south-west are generally either cyclonic or of cyclonic origin.² Hence, for the purpose of classification we shall divide, the whole group of islands into regions directly influenced by northeasterly and easterly currents and regions not directly influenced by such currents. The climatic conditions observed in the first regions will constitute the first type of climate in the Philippines. The climatic conditions in the other regions will make the second type of climate in the Philippines. Besides, there are regions in the Philippines which are only in part affected by northeasterly and easterly currents and the climatic conditions of such regions may form another type of climate which we shall call intermediate climate.

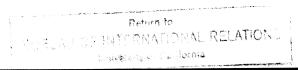
There are, consequently, in the Philippines three types of climatic conditions which we may formulate as follows:

- 1. Climatic conditions over the small islands or portions of large islands at or near the sea level, below 80 meters of altitude, freely exposed to air currents from north to east or southeast and not distant from the Pacific Ocean.
- 2. Climatic conditions over the small islands or portions of large islands at or near the sea level not freely exposed to currents from north to east or southeast and distant from the Pacific Ocean.
- 3. Climatic conditions over the small islands or over portions of large islands only partly exposed to northeasterly and easterly currents, or, if exposed to such currents, distant from the Pacific Ocean.

Mountain climates may form another type of climate, but they can be reduced to some of the above types as far as some meteorological or climatological elements are concerned, except temperature which decreases with the altitude, and rain which increases with height, generally. Thus the climate of Baguio, Benguet, may be classified as of the second type, with lower temperature; the climate of Bontoc belongs also to the second type; the climate of the high plateaus in the Tayabas Province belong either to the first or to the intermediate type, with milder temperature; and, finally, the high Plateaus in Mindanao, in the Misamis and Moro Provinces belong to the third or intermediate type, with lower temperature.

The distribution of rainfall being in the tropics almost the controller of climate, I give first the average monthly precipitation in millimeters for each type of climate.

² See "The cyclones of the Far East," p. 124 et seq.



	January.	Feb-	March.	April.	May.	June.	July.	August.	Sep- tember.	October.	No- vember.	De- cember.	Total
	mm.	mm.	•	,	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
irst type	246.3	228.5			150.8	166.0	249.3	167.0	235.6	286.8	350.9	387.9	2, 766, 1
Second type	13.1	80.80	12.8	40.2	191.9	334. 4	567.3	495.0	455.3	206.1	80.3	48.2	2, 453, 4
Third type	80.7	73.0			133.6	179.4	243.7	192.8	227.8	242. 4	208.2	151.7	1,856
	-		_		_				_				

FIRST TYPE

The features of the climatic conditions of the first type are:

I. There is practically no dry season in this type of climate. The greatest amount of rain falls generally in December and January during the prevalence of northeasterly winds. In regions south of parallel 10° N., where the winds from west to south can not attain or do not attain usually great force or frequency, the rain, during the so-called typhoon season, is less abundant than during the prevalence of northeasterly or easterly winds in December, January, February, and March. The result is that there is generally an average rainfall for the year less in regions south of parallel 10° N.

II. The percentage of the rainfall from October to February is nearly 50 per cent of the annual rainfall, and the percentage of rainfall from June to October never reaches 50 per cent of the rainfall for the whole year, especially in regions south of parallel 10° N.

III. Cloudiness follows the distribution of rain. December and January, cloudy and rainy; the clearest months being April and May.

IV. The relative humidity has small range during the year, the percentage increases gradually from September to December. Mean percentage for the whole year less than 85 per cent.

V. The temperature of the Archipelago may be classified as of three kinds—high, intermediate, and mild. Regions of high temperature have a mean annual temperature greater than 27; those of intermediate temperature have an annual mean of less than 27; and in regions of mild temperature the average yearly mean is less than 26. Now, in regions of the first type of climatic conditions the mean annual temperature never exceeds 27 and consequently they enjoy either an intermediate or mild temperature.

FIRST TYPE

RÉSUME

Humidity.—Small range of humidity, 78-88.
Temperature.—Average less than 27° centigrade.

The regions which enjoy the climatic conditions of the first type are:

160787-----8

The southeast end of Luzon or the Provinces of Albay and Sorsogon.

The Province of Ambos Camarines and adjacent islands.

The Island of Catanduanes.

The eastern coast of Luzon from the seashore to the range of mountains in the Province of Tayabas, eastern Isabela, and the eastern Cagayan.

The northern and eastern coast of Samar and adjacent islands.

The San Bernardino Strait and adjacent islands.

The eastern coast of Leyte and adjacent islands.

Dinagat and Siargao and adjacent islands.

The small islands on the interisland sea between Panay and Luzon east of longitude 122° E. (south of parallel 10° N.) The peninsula of Surigao to the mouth of Agusan River.

The eastern coast of Mindanao and the great valley of the Agusan River.

On the northern coast of Mindanao, the most northern parts of Misamis Province, and adjacent islands.

All these regions are easily accessible to wet currents direct from the Pacific.

SECOND TYPE

The characteristics of the climatic conditions of the second type are:

I. There is distinct wet and dry season in this type, the dry lasting generally from the end of November to March.

II. The percentage of rainfall during the months from June to October, popularly called the "rainy season," is at least 76 per cent of the total precipitation of the year, while the rainfall from November to February never exceeds 12 per cent of the total average. May and April are apt to have more precipitation than the dry months, owing to electric storms, and occasionally, especially in May, to cyclones.

III. Amount of clouds follows precipitation or rather shows the average precipitation. Clearest months from January to April, cloudiest months September, August, and July.

IV. The annual percentage of humidity is not very high owing to the influence and duration of the dry season. Annual percentage is not more than 80 per cent. The range of the monthly percentage is considerably greater, while the average for the year is less than in regions of the first type.

V. The temperature in these regions is either high or intermediate, seldom or never mild, according to the classification made above.

CROCKER SAMOCKERSEN AV CARES.

SECOND TYPE

RÉSUME

Heaviest	June, July, August, September, October.
	November, December, April, May.
Rainfall Mildest	
Total yearly, 2,	,453 mm.
Very distinct w	et and dry season

Humidity.-Large range, 70-86.

Temperature.—Around 27° centigrade.

The regions which enjoy the climatic conditions of the second type are:

The western coast of Luzon from Cape Bojeador to Cape Santiago or the Provinces of Ilocos Norte, Ilocos Sur, Union, Zambales, Bataan, and Batangas.

The Provinces of Rizal, western Bulacan, Pampanga, Nueva Ecija, Tarlac, and Pangasinan, the Lingayen Gulf, and adjacent islands.

The western coast of Mindoro and adjacent islands.

The western coast of Panay.

The islands in the north Sulu Sea and north of Paragua.

The Palawan and adjacent islands.

These regions are far distant from the Pacific Ocean or they do not get the influence of the currents from that ocean except through considerable portions of land.

THIRD TYPE

The charactiristics of the climatic conditions of the third type are:

- I. There is a short period of dry season in the regions of this type, lasting one or two months, generally between January and April, according to the more or less prevalence of wet easterly currents over the place, controlled mostly by the distance from the Pacific. We may consider as dry a month with less than 50 mm. rainfall. Average total rainfall for the year is less than 2,000 mm.
- II. The percentage of rainfall from November to February is less than 20 per cent of the total precipitation for the year. Percentage for the months of June to October very seldom exceeds 60 per cent.
- III. Cloudiness follows the amount of rain, which seems to be uniform during the year except for a short period of less rain; so that the clearest month is, as an average, the least rainy month. The average amount of clouds is less than over the regions of the first type.

- IV. The relative humidity is lower than the regions of this type south of Luzon. However, the average percentage of each month oscillates in the same manner as the rain.
- V. The temperature in this type is generally intermediate on the seashores and high inland where, of course, the altitude above the sea level is below 80 meters. It is mild in the most northerly regions, as in the Batanes and Babuyanes Islands and in northern Luzon on the seashore, as Aparri, and also over the small islands of that type, south, as Jolo, and along the seashores benefited by the straits' currents, as Isabela of Basilan, Zamboanga, and Surigao; finally on the western coasts of Samar and Leyte.

THIRD TYPE

RÉSUME

Humidity.—Very small range, 74-79.

Temperature.—Around 26° centigrade.

The regions which enjoy the climatic conditions of the third type are:

The Batanes and Babuyanes groups.

The extreme north of Luzon.

The Cagayan Valley of Luzon with the slopes east of the Sierra Madre down to Caraballo Sur.

Shores around the Laguna Bay.

Masbate and the islands of the interisland seas.

The northern and eastern coast of Panay.

The islands of Negros, Cebu, and Bohol.

The Gulf of Davao.

The western coast of Mindanao and the south end of the Zamboanga Peninsula. The banks along the Pulangui or great Mindanao River.

These regions are somewhat distant from the Pacific Ocean, and if they are exposed to currents from northeast or east, these currents are modified by the influence of intermediate islands and are not so apt to bring condensation or precipitation.

Climates and agriculture.—The difference of the distribution of rainfall in the various parts of the Archipelago which constitutes the basis for the division of climates in the Philippines is also the principal factor in the diversity of the agricultural products which are or may be obtained in the islands. By taking

advantage of the natural resources only, some products can be obtained more advantageously in some parts than in others; but by making use of artificial means of irrigation, it is possible to obtain practically all tropical products in one and the same region because the influence of the tropical temperature is uniform enough in all the islands, while the distribution of rain varies greatly in the different epochs of the year and even from year to year in one and same region.

Products such as hemp (abacá), which require a uniform distribution of rain throughout the year without a dry season, grow well in the regions of the first type. Products such as sugar, tobacco, coffee, and cacao, which can resist a short dry season, may be grown with advantage in the regions which have the third type of climate; tobacco can also be grown in the regions of the second type, if the dry season is not of long duration, while with the aid of artificial irrigation the principal products like sugar, tobacco, coffee, and cacao may be obtained in regions of the second type.

Rice may be and, as a matter of fact, is grown in all the types of climate or in all the islands; it also does very well, especially by duplicating the crops, in regions of the third type and in the other types the crops may be increased by irrigation.

Coconuts do well in all the types of climate, but especially in the first and third.

Apart from this, the variety of the products may be greatly increased in the highlands and even nontropical fruits may be harvested, except fruits such as apples, pears, prunes, etc., which do not bear fruit abundantly because in all three types of climate there are periods which have an amount of rain in excess of what these plants can bear.

Hence, the highlands of Abra, Bontoc, Benguet, and Tayabas in Luzon, of Mindoro, the tablelands of Bukidnon, of the high Agusan, Pulangui, and Lanao, and of the Lakes Siguasan, Butuan, and Cebu, recently discovered, are excellent for a great variety of tropical and nontropical agricultural products.

CLIMATE AND HEALTH

The variety of climate in the Philippines may be beneficial to suit different conditions of health. Thus the dry season of the second type gives chance for mild temperature and even relatively cool weather which may be comfortable and very pleasant to visitors from the temperate zone who may enjoy the benefits of a very moderate climate and avoid the rigor and severity of the winter outside of the tropic because the dry season in the second type prevails from November to the end

of March or during the winter in the northern hemisphere. Besides, the first type of climate gives all through the year a temperature which we classified as intermediate of mild, so the regions on this kind of climate are relatively agreeable and comfortable to live on. Generally speaking, in all kinds of climate in the Philippines life becomes less comfortable during the months in which rain mostly prevails as it can be seen in the table of rainfall given in the beginning of these notes. It is a matter of fact, as I have pointed out, that the precipitation or rainfall is the mean factor which makes life more or less confortable in the lowlands or below 80 meters of altitude in the Philippines. But the factor which changes altogether the conditions of climate in relation to health is the altitude, as it has already been stated.

The first effect of the altitude above the sea level is the diminution of temperature. Experience has shown that the average diminution of temperature is 1° °C. for every 165 meters of altitude above the sea level. Hence the average difference of temperature between Baguio (1,500 meters) above the sea level and Manila is 9° °C. The other highlands in the Philippines are subject to the same rate of diminution of temperature with altitude. The other elements of climate are not so decidedly affected by altitude as temperature and the general features of the type of climate, according to the regions in which they are situated, are generally kept. Therefore Baguio, for instance, has the second type of climate with lowest temperature and more abundant rain.

Practically all the highlands in the Philippines are comfortable to live on especially if they are in regions of the second and third types and in proportion to altitude. As instances we can mention the highlands of Rizal, such as Antipolo, Bosoboso, etc., the highlands of Tayabas, Dolores, Lucban, Sariyaya, etc., the highlands of Batangas south of Taal Lake, the highlands of the northern slope of the mountain chain of Cavite Province, such as Silang, Imus, Dasmariñas, Amadeo, etc., the highlands of Abra, Lepanto and Bontoc, the highlands of Bukidnon, Mindanao and the lands around Lake Lanao, especially the region of Camp Keithley, the highlands near the banks of the Pulangui or Great River of Mindanao, and the lands around lake Liguasan, Butuan and Cebu recently discovered in a state of But, by far, the most important health resorts in the Philippines are the plateaus of Baguio approximately 5,000 feet above sea level and about 175 miles from Manila most of which distance is covered by railroad and the rest by autos.

Medical reports are constantly praising the beneficial conditions of the Baguio climate. Colonel William H. Arthur writes:

"Experience has shown that a large number of cases of disease or injury, or patients convalescing from surgical operations, recover much more rapidly in the cool mountain climate of Baguio than in the depressing heat and humidity of the plains. Before the establishment of this mountain refuge from the heat of the plains, many cases of this class were transferred to the United States that are now brought back to health at Camp John Hay and Camp Keithley. The beneficial effect of the change in climate is particularly noticeable in people who have become run down after one or more hot seasons spent at the lower levels.

"The great value of a refuge in the mountains from the effect of prolonged heat is shown in medical reports, which indicate the classes of cases especially benefited, but there are a great many others not reported and not actually sick but whose vitality and resistance are more or less diminished and who find great benefit from an occasional sojourn in the mountains of Benguet or the highlands of Mindanao, especially during the hottest part of the year."

O

Return to SUREAU OF INTERNATIONAL RELATIONS University of California

PHILIPPINE ISLANDS
PUREAU OF COMMERCE
AND INPUSTRY
STATISTICAL
EULLETIN
1-6
1918-23

